

## SCOPE AND OBJECTIVE OF THE SHORT TERM COURSE

Nanotechnology is an emerging field in engineering and finds many applications in the core engineering discipline of Mechanical Engineering.

This workshop aims at imparting the scientific and research oriented knowledge of nanotechnology and its applications. This course will cover the synthesis of nanomaterials, nanofluids, nano composite, nano-coating and their various applications in the areas of heat transfer, refrigeration and space.

A lot of indigenous technology being developed by our nation and lot to be developed, this workshop will have a real impact among the researchers and student community. In addition to the demonstration by various companies on the latest developments in the field, it will also be very useful for faculty members to pursue their Ph.D. in the area of nanotechnology and its applications.

## COURSE CONTENT

**Introduction to nanotechnology**  
**Nanofluids and its applications in heat transfer**  
**Synthesis of nano-materials & nanowire**  
**Nano-composites and nano-refrigerant**  
**Application of nanotechnology in energy sector**  
**Thin film coatings and its applications**  
**Nanotechnology in biomedical applications**

## FACULTY

Lectures will be delivered by resource persons from NITT, BHEL and R&D Labs.

## ELIGIBILITY

Faculty members from Technical Institutions, Research Scholars, PG Scholars, Professionals working in Industry and Government Organizations are eligible to attend the course.

## REGISTRATION FEE :

**Rs.1000/- for Students**

**Rs.2000/-Faculty members**

**Rs.3000/- for Professionals from Industry / Govt. Organizations**

The Registration fee must be paid by DD in favor of "The Director, NIT, Tiruchirappalli - 620015" and payable at State bank of India, NIT, Tiruchirappalli.

Registration fee includes: Food and Course Material

Accommodation will be provided in the institute hostel /guest house on payment basis subject to the availability.

## TA FOR PARTICIPANTS

No TA/DA will be paid to the participants.

## IMPORTANT DATES

Last date for receiving application : 28.10.2014

Intimation of selection (By email only): 29.10.2014

# Short Term Course on Applications of Nanotechnology (Under Self-financed Category)

**31.10.2014 - 01.11.2014**

## Course Coordinators

Dr. S. Suresh  
Dr. S. Venkatachalapathy  
Dr. V. Senthilkumar



## Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620 015**

Web: [www.nitt.edu](http://www.nitt.edu)

## REGISTRATION FORM

### Short Term Course on Applications of Nanotechnology (Under Self-financed Category)

31.10.2014 - 01.11.2014

Name :  
Qualification :  
Designation :  
Gender (M / F) :  
Department :  
Organization :  
Mailing Address :  
Phone :  
Email :  
Accommodation Required (Y/N) :

#### Details of Registration Fee

Amount : DD No. :  
Date :  
Bank Name & Place :

#### DECLARATION BY THE APPLICANT

The above mentioned information is true to the best of my knowledge and belief. I shall attend the course for the entire duration.

Signature of Applicant

#### SPONSORSHIP CERTIFICATE

Dr./Mr./Ms. \_\_\_\_\_ is an employee/Research Scholar/P.G student of our Institute/ organization and sponsored to attend the short term course, if selected.

Place:

Date:

Signature and Seal of Sponsoring authority

#### ADDRESS FOR CORRESPONDENCE

Dr. S. Suresh/ Dr. S. Venkatachalapathy/

Dr. V. Senthilkumar

(Course Coordinators)

Department of Mechanical Engineering

National Institute of Technology

Tiruchirappalli - 15.

Phone: 9842483638/9443514038/9489066246

Fax: 0431 - 2500133

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#### ABOUT THE INSTITUTE

National Institute of Technology (Formerly known as REC) Tiruchirappalli campus is spread over a sprawling 800 acres of land situated in the heart of Tamil Nadu on the banks of river Cauvery. It was started as a joint and cooperative venture of Government of India and Government of Tamil Nadu during 1964 with a view to catering to the needs of man power in innovative technology for the country. Now it has become a premier Institution of National importance and is known for its high standards in teaching and research.

#### ABOUT THE DEPARTMENT

Mechanical Engineering Department was established in the year 1964. It is one of the oldest and finest departments of NITT and has the reputation of being dedicated towards the development of new and innovative technologies. The department offers a program in Mechanical Engineering at B.Tech. level; Thermal Power Engineering, Industrial Safety Engineering at the M.Tech. level and M.S (by Research) and Ph.D programmes.

