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 on nanotechnology and its applications. This course will cover synthesis of nano-materials, nanofluids, nanocomposites, nanocoating and their various applications in the areas of heat transfer, refrigeration and space.

As 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 students 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

Synthesis of nanomaterials and nanowire
Characterization of nanomaterial
Nanocomposites and nano refrigerant
Nanofluid preparation and Property measurements
Nano coating and applications of nanofluid
Nanoparticles with phase change materials
Nanotechnology in space applications
Oxide dispersion strengthened (ODS) steels

Exhibition and Demo:
Aimil Ltd., Chennai - Dry film thickness gage, Digital surface profile gage, Cross hatch cutter, Surface adhesion tester (Elcometer -UK), KD2 Pro, Rheometer.
Zetasizer (Malvern Instruments -UK)
Nano Tech. Research Lab of NITT - Spray pyrolysis.
Hind High Vaccum Co. Pvt. Ltd - Thin film equipments

FACULTY
Lectures will be delivered by resource persons from NITT, NITC, IIT, ARCI, CECRI, AUC 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 Short Term Course.

REGISTRATION FEE:
Rs.400/- for Faculty members/Research Scholars/PG Scholars
Rs.1000/- 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: Accommodation, Food, and Course Material

Accommodation will be provided in the Institute hostel.

TA FOR PARTICIPANTS
No TA/DA will be paid to the participants.

IMPORTANT DATES
Last date for receiving application: 11.12.2013
Intimation of selection (By email only): 12.12.2013

Technical Education Quality Improvement Programme (TEQIP-II)
Sponsored
Short Term Course on
Applications of Nanotechnology in Mechanical Engineering

Course Coordinators
Dr. S. Suresh
Dr. S. Venkatachalapathy
Prof. V. Mariappan

Organized by
DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI - 620 015
Web: www.nitt.edu
REGISTRATION FORM
Technical Education Quality Improvement Programme (TEQIP-II)
Sponsored Short Term Course on Applications of Nanotechnology in Mechanical Engineering

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

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
Mr./Ms./Dr. __________________ is an employee / Research Scholar of our Institute / Organization and sponsored to attend the TEQIP-II sponsored short term course, if selected.

Place: 
Date: 

Signature and Seal of Sponsoring authority

ADDRESS FOR CORRESPONDENCE

Dr. S. Suresh/ Dr. S. Venkatachalapathy
Course Coordinator
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National Institute of Technology
Tiruchirappalli - 15.
Phone: 9489066246 / 9443514038
Fax: 0431 - 2500133
Email: ssureshmech2013@gmail.com

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 manpower 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.