



Workshop on

## Sustainable Manufacturing

Under

### Technical Education Quality Improvement Programme

July 18-19, 2013

Organised by

Department of Production Engineering  
National Institute of Technology  
Tiruchirappalli – 620 015  
Tamil Nadu, India

#### Course Coordinators

**Dr.S. Kumanan & Dr.S.Vinodh**  
Department of Production Engineering  
National Institute of Technology  
Tiruchirappalli – 620 015  
Tamil Nadu, India

#### WORKSHOP SCOPE

Sustainability issues are increasingly important among Governments, Consumers, and Corporations around the world. Sustainable manufacturing implies the creation of manufactured products that use processes that are non-polluting, conserve energy and natural resources, and are economically sound and safe for employees, communities, and consumers. Many companies are directing their resources to reduce the environmental impact of their products and services. To remain competitive in the global economy, employees must understand the impact of their decisions on the environment and society, while at the same time influencing the company's bottom line. It is the mission of universities to prepare these future employees to meet this need. In this context, the participants of this course will understand the field of sustainable manufacturing.

#### COURSE CONTENTS

- New materials/technologies for sustainable products
- Product innovation for sustainable manufacturing
- Process innovation for sustainable manufacturing
- Innovation and creativity in supply chain operations
- Compliance with regulations (REACH, WEEE EVV)
- Economic analysis and business cases
- Safety, health, public and regulatory issues
- Education and training issues
- Innovative 6R applications
- Total life – cycle consideration
- Sustainable manufacturing processes

**Sustainable Manufacturing:** The creation of manufactured products that use processes that minimize negative environmental impacts, conserve energy and natural resource, are safe for employees, communities, and customers and are economically sound.

#### FACULTY

The course faculty includes resource persons from IITs, NITs and R&D organizations.

#### ELIGIBILITY

Teachers from technical institutions approved by AICTE and Research Scholars are eligible. Also participants from industry are eligible to attend the programme.

#### REGISTRATION FEE

Participants must pay a Non-refundable registration fee of Rs. 200/- Accommodation will be provided in students' hostel on chargeable basis.

The registration fee must be paid by DD in favour of "The Director, NIT, Tiruchirappalli-620015" and payable at State Bank of India, NIT, Tiruchirappalli.

Workshop kit and Working lunch will be provided.

#### IMPORTANT DATES

Last date for receiving Application:  
**05.07.2013**

Intimation of selection: **08.07.2013**  
(By email only)

## REGISTRATION FORM

Workshop on  
**Sustainable Manufacturing**

**Under Technical Education Quality  
Improvement Programme**

**July 18-19, 2013**

1. Name:
2. Gender (M/F):
3. Qualification:
4. Designation:
5. Department:
6. Organization:
7. Experience:
8. Mailing:  
Address
  
- Phone:
- Email:
9. 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 agree to abide by the rules and regulations governing the workshop. I shall attend the course for the entire duration.

Place:

Date: *Signature of Applicant*

## SPONSORSHIP CERTIFICATE

Dr/Mr/Ms. \_\_\_\_\_  
\_\_\_\_\_ an employee of our institution is hereby sponsored to attend the workshop “**Sustainable Manufacturing**” at NIT, Trichy during July 18-19, 2013.

Place:

Date: *Signature and Seal of  
Sponsoring authority*

\_\_\_\_\_  
Sponsored application should be sent to the coordinator of the programme.  
\_\_\_\_\_

## ADDRESS FOR CORRESPONDENCE

**Dr. S. Vinodh**

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## ABOUT THE INSTITUTE

National Institute of Technology Tiruchirappalli a centrally funded technical institute is by act of parliament. This Act declares it as an institute of national importance along the lines of the IITs under the direct purview of the Ministry of Human Resource Development. The institution offers Under Graduate Courses in ten branches and Post Graduate Courses in twenty one disciplines of Science, Engineering & Technology besides MS and Ph.D. in all the departments. The faculty is inducted through a process of open advertisement throughout the country. The college is an example of cultural unity with students drawn from most of the states in the country.

## ABOUT THE DEPARTMENT

The Department of Production Engineering established in the year 1983. The Department offers B.Tech. (Production Engineering), M.Tech. (Manufacturing technology), M.Tech (Industrial Engineering and Management), M.S. and Ph.D. programmes. State-of-the-art laboratories are available in the areas of Machining, Forming, Welding, Robotics, CIM, CNC, Mechatronics, Modeling, Simulation, Ergonomics, Tribology, composite materials and Operations Management. Many research papers have been published in journals and conferences. More than 80 Ph.D. degrees were awarded through Research Guidance by the Faculty of Production Engineering. The Department offers engineering consultancy in the areas of design, manufacturing and resource management.

## HOW TO GET TO NIT-TRICHY

NIT- Tiruchirappalli is located about 22 km from Tiruchirappalli Junction / 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.