

### SPONSORSHIP CERTIFICATE

Mr/Mrs/Ms/Dr. \_\_\_\_\_

is an employee/faculty/research scholar of our Institute / Organization is hereby sponsored and he / she will be permitted to attend the course in full, if selected.

**Signature of the Sponsoring Authority with Seal**

Date :

Place :

### ADDRESS FOR CORRESPONDENCE

**Dr. V. SENTHILKUMAR**

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

Phone : 0431 – 2503519 Mobile : +91-94860 01113

Fax : 0431– 2500133 Email : [vskumar@nitt.edu](mailto:vskumar@nitt.edu)

**Note:** Please email us a soft copy of your duly filled application with DD followed by a hard copy of the same to the above mentioned address.

### ELIGIBILITY

Faculty members from Technical/Science Institutions, Research Scholars, PG Students, Professionals working in Industry and Government Organizations are eligible to attend the course. The number of participants is limited to 40.

### REGISTRATION FEE

Application for participation in the workshop shall be sent to the coordinator as given in the attached format along with the registration fee of Rs.330/- for Academicians / Research Scholars and Industrial Participants in the form of D.D. drawn in favor of “**The Director, NIT, Tiruchirappalli - 620 015**” payable at **SBI, NIT TRICHY Branch (Code -01617)**.

### BOARDING AND LODGING

Limited accommodation will be provided to the participants in the Hostel/Guest house at NIT Tiruchirappalli. Participants who do not avail this facility will not be entitled to any rebate. Accommodation will be on twin sharing basis. Local participants will not be provided accommodation. No TA/DA will be given to the participants.

### IMPORTANT DATES

Last date for receiving Application : **13-02-2017**

Intimation of selection (by Email only): **14-02-2017**

Additional registration forms may be photocopied or downloaded from the website [www.nitt.edu](http://www.nitt.edu)

## TEQIP– II Sponsored

WORKSHOP ON

## Advanced Material Processing: Microstructural Design and Analysis

**16<sup>th</sup> to 18<sup>th</sup> February, 2017**

Co-ordinators

**Dr. V. SENTHILKUMAR**

**Dr. D. LENIN SINGARAVELU**

**Dr. R. NARAYANASAMY**



Organised by

DEPARTMENT OF PRODUCTION ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI – 620 015  
TAMILNADU, INDIA

## **REGISTRATION FORM**

# **TEQIP-II**

SPONSORED WORKSHOP

on

## **Advanced Material Processing: Microstructural Design and Analysis**

**16<sup>th</sup> to 18<sup>th</sup> February, 2017**

1. Name :
2. Designation :
3. Department :
4. Organization :
5. Mailing Address :

Cell :

Email :

6. Accommodation Required: Yes [ ] No [ ]

7. Details of Registration Fee

DD No.:

Date :

Bank Name & Branch:

The above mentioned information is true to the best of my knowledge and belief.

**Signature of Applicant**

## **COURSE OBJECTIVES**

Primary objective of this course is to explore the novel researches in processing of advanced materials with regards to microstructural design and its analysis. The contents include principle of material selection and microstructural design approach for enhancing structural efficiency. Maximizing structural efficiency and manufacturability of advanced metallic materials (Aluminum, Magnesium and Titanium alloys), composites and their industrial case studies are discussed.

## **COURSE CONTENTS**

The following topics will be covered in the course :

- \* Principle of material selection
- \* Microstructural design and development
- \* Techniques for microstructural analysis
- \* Structural efficiency of the advanced materials
- \* Controlling of microstructure for material strength
- \* Processing map and characterization
- \* Severe Plastic Deformation of advanced materials
- \* Processing and characterization of light weight materials

## **RESOURCE PERSONS**

The resource persons for this course is from various institutions like IIT's, NIT's and Industries.

## **ABOUT THE INSTITUTE**

National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery. It was started as a joint and co-operative venture of the Government of India and Government of Tamil Nadu in 1964 with a view to catering to the needs of man-power in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development.

## **ABOUT THE DEPARTMENT**

Department of Production Engineering was established in 1983 and offers B.Tech. (Production Engineering) M.Tech. (Manufacturing Technology, Industrial Engineering and Management), M.S. and Ph.D. programmes. The highly experienced faculties of the department contributes to the vital role in academic research. Many research articles have been published in reputed national, international journals and conferences by the faculties and students of the department. Government of India has recognised this Department as a Centre for Quality Improvement Programme for PG and Ph.D. courses.

## **TEQIP-II**

The growth in Technical Education in India has not translated into any significant growth in the number of quality graduates due to restricted availability of qualified faculty and better teaching-learning and training facilities. Technical Education Quality Improvement Programme (TEQIP) was initiated to systemically transform the country's technical education system and make it globally competitive. TEQIP has been launched to function in three phases, with TEQIP II being the current phase.

## **HOW TO REACH 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 mofussil or route bus and get down at NIT Trichy. The journey time from Tiruchirappalli will be around 40 minutes.