

TEQIP Sponsored

Short Term Course

on

**ADDITIVE
MANUFACTURING AND
RAPID PRODUCT
DEVELOPMENT
TECHNOLOGIES**

December 26-31, 2016



Course Coordinators

Dr.S.Vinodh & Dr.P.Senthil

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

Organized by

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

WORKSHOP SCOPE

Additive Manufacturing technologies facilitates the conversion of 3D design data into products by layer deposition. Additive Manufacturing has tremendous applications in sectors such as automotive, aerospace, defense, consumer electronics and so on. This course will focus on fundamentals of Additive Manufacturing Technologies for ensuring rapid product development. Recent trends in Additive Manufacturing such as 3D Printing, Hybrid, Bio Additive Manufacturing, Metal Additive Manufacturing and Industrial applications of Additive Manufacturing will be deliberated. Additive Manufacturing applications for micro manufacturing also will be discussed. 3D Printers will be demonstrated. Software modules of Rapid Product development and research avenues on Additive Manufacturing also will be presented.

COURSE CONTENTS

- Overview on Product Development process
- Introduction to Rapid Prototyping and Rapid Tooling
- Hybrid Bio Additive Manufacturing
- Metal Additive Manufacturing
- Rapid Prototyping techniques – SLA, SLS, FDM, 3DP, LOM, SGC
- Rapid Tooling Techniques
- Product Lifecycle Management
- Demo on Packages for RP
- Industrial Applications of Additive Manufacturing
- Manufacturing Process Innovation
- Hands on experience on Rapid Prototyping Modules

FACULTY

The course faculty includes resource persons from reputed institutions, industries and R&D organizations.

ELIGIBILITY

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

REGISTRATION FEE

Participants must pay a registration fee of Rs. 660/- (Inclusive of Service Tax)

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 Food will be provided during the Course. Free accommodation will be provided for outstation participants during the course.

IMPORTANT DATES

Last date for receiving Application:
19.12.2016

Intimation of selection: **20.12.2016**
(By email only)

REGISTRATION FORM

Short Term Course on
**ADDITIVE MANUFACTURING
AND RAPID PRODUCT
DEVELOPMENT
TECHNOLOGIES**
December 26-31, 2016

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:

Signature of the Applicant with Date

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/student of our institution is hereby permitted to attend the workshop "ADDITIVE MANUFACTURING AND RAPID PRODUCT DEVELOPMENT TECHNOLOGIES" to be held at NIT, Trichy during December 26-31, 2016.

Place:

Date:

*Signature and Seal of
Sponsoring authority*

Sponsoring application should be sent to the coordinator of the programme.

ADDRESS FOR CORRESPONDENCE

Dr.S.Vinodh

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

Mobile : 9952709119

Email : vinodh@nitt.edu

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, 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 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

The Department of Production Engineering is one of the best in the country. Established in the year 1983, the department strives towards excellence in the fields of manufacturing and industrial engineering. The vision of the department is to become a centre of excellence for learning, research and model manufacturing. It was declared as the best department of the institute for the year 2006-07. The Department of Production Engineering offers B.Tech. (Production Engineering) M.Tech. (Manufacturing Technology, Industrial Engineering & Management), M.S. and Ph.D. programs. The highly experienced faculty of the department contributes to the vital role in academic research. Many research papers have been published in reputed national/international journals and conferences by the faculty. Government of India has recognized this Department as a Centre for Quality Improvement Programme in PG and Ph.D. courses.

REACHING 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.