



***DST-SERB Sponsored
Two Days National Workshop
on***

**RAPID
MANUFACTURING &
3D PRINTING**

April 22-23, 2016

Organised by

Department of Production Engineering
National Institute of Technology
Tiruchirappalli – 620 015.
Tamil Nadu, India
In support with SERB, New Delhi

Course Coordinators

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

WORKSHOP SCOPE

Increasing competitiveness necessitates the development of products quickly in accordance with dynamic customer requirements. This situation demands the product development process to be responsive. Responsiveness could be improved with the usage of time compression technologies. The management of various phases of product development cycle is a challenging task which stimulates the need for various time compression technologies. Rapid Manufacturing technologies enable the development of prototypes within a short period of time. Additive manufacturing technologies facilitates the development of objects layer by layer in contrast with subtractive manufacturing technologies. Rapid manufacturing technologies finds tremendous applications in industrial sectors. Industrial applications in the context of automotive, aerospace, biomedical, defence, electronics sector will also be deliberated. Scope for research projects and research avenues in the context of Rapid Manufacturing and 3D printing also will be discussed.

IMPORTANT DATES

Last date for receiving Application:
28.3.2016

Intimation of selection: **1.4.2016**

(By email only)

COURSE CONTENTS

- Additive manufacturing technologies
- Computational Geometry and Reverse Engineering
- Product customisation
- Concurrent Engineering and DFM
- Lasers in rapid manufacturing
- Design for Additive Manufacturing
- Direct laser deposition and Laser Engineered Net Shaping
- Optimization and Soft Computing applications
- Rapid manufacturing of metallic and ceramic objects
- Bio CAD applications
- 3D printing in aerospace, medical and defence applications
- 3D printing in packaging – software for rapid manufacturing
- Future directions of 3D printing

REGISTRATION FEE*

Students and Full Time Scholars: INR 1200*
Faculty and Part Time Scholars: INR 1500*
Industry Delegate: INR 3600*

EXHIBIT SPONSORSHIP*

INR 8400* (Exhibit place will be provided along with pass for 2 persons)

INR 4200* (Exhibit place will be provided along with pass for 1 person)

*Includes 20% Institute Overheads

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.

REGISTRATION FORM

Workshop on RAPID MANUFACTURING & 3D PRINTING

April 22-23, 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

Course Faculty

- 1) Dr. K. P. Karunakaran, Institute Chair Professor, Dept. of Mech. Engg. IIT Bombay.
- 2) Dr.C.K.Srinivasa, HOD, Additive Manufacturing Technology Centre, CMTI Bangalore
- 3) Dr.G.Saravana Kumar, Associate Professor, Dept. of Engg. Design, IIT Madras, Chennai.
- 4) Dr.Y.Ravikumar, Assistant Professor, Dept. of Mech. Engg, National Institute of Technology, Warangal, Telangana
- 5) Dr.S.Vinodh, Assistant Professor, Dept. of Production Engg., National Institute of Technology, Tiruchirappalli, Tamil Nadu
- 6) Dr.P.Senthil, Assistant Professor, Dept. of Production Engg., National Institute of Technology, Tiruchirappalli, Tamil Nadu

SPONSORSHIP CERTIFICATE

Dr/Mr/Ms. _____
_____ an employee/student of our institution is hereby permitted to attend the workshop “**Rapid Manufacturing & 3D Printing**” to be held at NIT, Trichy during April 22-23, 2016.

Place:
Date:

*Signature and Seal of
Sponsoring authority*

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

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.

ADDRESS FOR CORRESPONDENCE

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