



**QIP Sponsored  
Short Term Course  
On**

## **A New Dimension in Manufacturing Additive Manufacturing**

**1<sup>st</sup> - 7<sup>th</sup> February, 2016**



**Coordinator**

**Dr. Rajesh Ranganathan**

**Organized by**

**Advanced Integrated Manufacturing &  
Management Research Group (AIMMRG)  
Department of Mechanical Engineering  
Coimbatore Institute of Technology**

**(A Government Aided Autonomous Institution affiliated to  
Anna University & accredited by NBA)  
Coimbatore - 641 014, Tamilnadu, India**

**Tel: 0422-2574071, 72 # 385**

**Website: www.cit.edu.in**

### **About The Course**

Additive manufacturing (AM) technologies are positioned to provide a disruptive transformation in how products are designed and manufactured. AM can be applied to areas, where conventional manufacturing reaches its limitations. The technology is of interest where a complex design and manufacturing is required so as to come up with solutions. It enables a design-driven manufacturing process - where design determines production and not the vice-versa. What is more, AM allows for highly complex structures which can still be extremely light and stable.

It is already used to make some niche items, such as medical implants, and to produce plastic prototypes for engineers and designers. It provides a high degree of design freedom, the optimization and integration of functional features, the manufacture of small batch sizes at reasonable unit costs and a high degree of product customization even in serial production. This course aims to make clarity on fundamentals and application of AM, which will be held for one week. The course is designed especially the basics and advances of rapid prototyping technologies and 3D printing.

### **Course Topics**

- Rapid Prototyping and Manufacturing
- Additive Manufacturing
- Advancements in AM Processes
- Newer Manufacturing Techniques
- Current Manufacturing Techniques
- Manufacturing Applications
- Direct Manufacturing
- Medical additive manufacturing
- Rapid Tooling
- Modern Manufacturing

- Integration of AM & Management
- Product Customization

### **Resource Persons**

Eminent resource persons are presidents of manufacturing societies, academicians from leading institutions, experts in the field and Technical persons from various companies.

### **Eligibility & Selection**

Faculty from AICTE approved Institutions and scientists from R&D organizations are eligible to participate in the program. The total intake is restricted to 30 and selection will be based on first come first served basis.

### **Important Dates**

Receipt of Application: 12<sup>th</sup> January 2016

Intimation of Selection: 20<sup>th</sup> January 2016

### **Registration**

The application in the attached format along with refundable Demand Draft for Rs.500/- (in favour of QIP - NDMAN, payable at Coimbatore) is to be sent to the coordinator on or before 12-01-2016 Travel fare (3<sup>rd</sup> AC train fare) will be provided for eligible outstation participants. Free boarding and lodging will be provided for the outstation participants.

## The Institute

Coimbatore Institute of Technology (CIT), started in 1956 by Sri. V. Rangasamy Naidu is reckoned for its academic and research excellence in engineering and technology. CIT is a Government Aided Autonomous Institution affiliated to Anna University, Chennai. The institute has a reputation with service of competent well qualified faculty members and dynamic management to set highest standards in engineering research and development. CIT offers undergraduate, post graduate and PhD programs with curriculum of global standards, promoting the students to compete internationally. All the courses are accredited by NBA. The institute has celebrated its Golden Jubilee in the year 2006 and has collaborations with leading frontier universities and industries in India and abroad for promotion of innovative engineering ideas. CIT has a laurel foliage on the head as an emblem of victory. Recently, CIT was awarded with the "Bizz-2012" the world business leader award and "ABP News National B-School awards" 2014 for outstanding Engineering Institution in South India.

## The Department of Mechanical Engineering

The Department of Mechanical Engineering is one of the earliest departments in CIT, started in the year 1956. It offers programs right from under graduate to doctoral level. It was started in the year 1956 with Bachelor of Engineering, since then many quality engineers graduated from here, have served the society and the nation. It has moved further by adding Post graduate degree programs in engineering in the field of Heat Power Engineering in 1965 and Advanced Manufacturing Technology in 2005. Doctorate Programme was started in the year 1972, and as on date it has awarded more than 82 Ph.Ds. Fourteen out of thirty nine faculty members are doctoral degree holders from premier institutes including Indian Institute of Technology and Loughborough University, with the rest of them in the pursuit. There are 23 laboratories accounting for more than Rs. 7 Crores for research and academic work with a work force of 35 technical staff. The department holds an MHRD sponsored centre of excellence in manufacturing sciences. The infrastructure and people together have been instrumental in producing more than 3000 quality engineers for the past 59 years through quality education.

## Organizing Committee

### Chief Patron

**Dr. S. R. K. Prasad**

Correspondent,  
Coimbatore Institute of Technology.

### President

**Dr. R. Prabhakar**

Secretary,  
Coimbatore Institute of Technology.

### Patron

**Dr. V. Selladurai**

Principal,  
Coimbatore Institute of Technology.

### Organizing Secretary

**Dr. Rajesh Ranganathan**

Associate Professor,  
Coimbatore Institute of Technology.

### Joint organizing Secretaries

**C. Manivannan**

Assistant Professor,  
Coimbatore Institute of Technology.

**C. Vivek**

Assistant Professor,  
Coimbatore Institute of Technology.

### Address for Communication

**C.Manivannan**

Assistant Professor  
Department of Mechanical Engineering  
Coimbatore Institute of Technology  
Coimbatore- 641014.

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**QIP Sponsored One Week  
Short Term Course  
On**

**1<sup>st</sup> - 7<sup>th</sup> February, 2016**

### Registration Form

Name :

Designation :

Department :

Research Area :

Address :

Phone :

Email :

Accommodation required : YES / NO

This is to certify that \_\_\_\_\_ is an employee of our Institution / Organization, will be permitted for attending one week **QIP sponsored Short Term Course on "A New Dimension in Manufacturing- Additive manufacturing"** at Coimbatore Institute of Technology, Coimbatore during 1<sup>st</sup> - 7<sup>th</sup> February, 2016.

Place:

Date:

Signature of the Applicant

Signature with seal  
Head of the Institution