

UNIVERSITY GRANTS COMMISSION  
SPONSORED ONE WEEK  
FACULTY DEVELOPMENT PROGRAMME  
on

ADVANCED ENGINEERING MATERIALS

03<sup>rd</sup> – 09<sup>th</sup> November, 2014



CONVENER

Dr. N. MUTHUKUMARASAMY

COORDINATORS

Dr. S. AGILAN

Dr. G. SURESHKANNAN

Organized by

DEPARTMENT OF PHYSICS

&

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

ABOUT THE COURSE

New materials have been among the greatest achievements of every age and they have been the centre to the growth, prosperity, security, and quality of life of human beings since the beginning of history. It is always new materials that open the door to new technologies, whether they are in civil, chemical, construction, nuclear, aeronautical, agricultural, mechanical, bio-medical or electrical engineering. The knowledge of material characteristics allows the engineer not only to make the best material selection as a function of its application in a given product, but also helps to overcome its limits and constraints in a design path where materials and transformation technologies become variable of the creation process. The objective of this programme is to make the participants skilled in the materials field and also to be acquainted with the emerging trends in the field of materials science and its applications by providing a forum for new ideas and concepts.

COURSE TOPICS

- Nanomaterials
- Smart materials
- Shape Memory Alloys
- Composite materials
- Biomaterials
- Advanced Polymers

RESOURCE PERSONS

Eminent persons from IITs, NITs, Anna University, Government, Government Aided Institutions and leading Material Consultants.

ELIGIBILITY AND SELECTION

Faculty from AICTE approved Institutions are eligible to participate in the programme. The total intake is restricted to 30 and selection will be based on first come first serve basis.

IMPORTANT DATES

- Last Date for receipt of application : 24.10.2014
- Last Date for intimation of selection : 28.10.2014

REGISTRATION

Registration fee in the form of DEMAND DRAFT for Rs. 1000/- is to be drawn in **favour of "UGC - AEM"** payable at **Coimbatore**. The application in the attached format is to be sent to the coordinator on or before 24.10.2014

ALLOWANCE AND ACCOMODATION

- No TA/DA will be provided
- The participants who are in need of accommodation may get the details of hotels nearby from us and they have to make their own arrangement.

ABOUT CIT

Coimbatore Institute of Technology (CIT) started in 1956 by Sri. V. Rangasamy Naidu is reckoned for its academic excellence in engineering and technology. CIT is a Government Aided Autonomous Institution affiliated to Anna University, Chennai. CIT offers under graduate, post graduate and Ph.D., programmes with a global standard curriculum promoting the students to compete internationally. The institute celebrated its Golden Jubilee in the year 2006. The institute has collaboration with leading frontier universities and industries in India and abroad for the promotion of innovative engineering ideas. CIT has laurel foliage on the head as an emblem of victory. Recently, CIT has been awarded with the **"Bizz-2012"** the world business leader award and **"ABB News National B-School award"** for outstanding Engineering Institution in South India.

## ABOUT HOST DEPARTMENTS

The Department of Physics is one of the oldest departments in this Institution. Excellence in teaching and research has been the hallmark of the department. The faculty members of the department are involved in innovative research. Research in the department ranges across the most challenging problems in condensed-matter physics, materials science, thin film physics, nanoscience and nanotechnology, photovoltaics and computational materials science. The research work carried out in the department has been published in a number of national and international journals resulting in good number of citations of our work. The department has a well-established laboratory to prepare thin films and nanomaterials by physical and chemical methods. Departmental laboratory is equipped with sophisticated instruments like, atomic force microscope, spectrophotometer, Hall effect measurement system and photoluminescence arrangement. The department has received funds more than Rs. 1 Crore from different government funding agencies like DST, UGC, CSIR and AICTE.

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. The department has a team of well qualified and experienced faculty members having vast experience and specialized in different areas of thermal, design and manufacturing streams with many remarkable achievements. It has moved further by adding Post graduate degree programmes in engineering in the field of Heat Power Engineering in 1965 and Advanced Manufacturing Technology in 2005. Doctorate Programme was started in 1972, and as on date it has awarded more than 70 Ph.Ds. Eleven out of thirty eight faculty members are doctoral degree holders from premier institutes, with the rest of them in the pursuit. There are 22 laboratories accounting for more than Rs. 6 Crores for research and academic work.

## ORGANIZING COMMITTEE

Chief Patron  
**Dr. S. R. K. PRASAD**  
Correspondent, CIT, Coimbatore

President  
**Dr. R. PRABHAKAR**  
Secretary, CIT, Coimbatore

Patron  
**Dr. V. SELLADURAI**  
Principal, CIT, Coimbatore

Chairman and Convener  
**Dr. N. MUTHUKUMARASAMY**  
Associate Professor and Head  
Department of Physics, CIT

Coordinators  
**Dr. S. AGILAN**  
Associate Professor, Department of Physics, CIT  
**Dr. G. SURESHKANNAN**  
Assistant Professor, Department of Mech. Engg., CIT

## ADDRESS FOR CORRESPONDANCE

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Website of CIT: <http://cit.edu.in/>

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### REGISTRATION FORM

Name :  
Designation :  
Department :  
Address :  
  
Phone :  
Email :  
Accommodation required : YES/NO

### PAYMENT DETAILS

Name of the bank & Branch:  
Amount :  
DD No. & Date :

### DECLARATION

I \_\_\_\_\_ agree to abide the rules and regulations governing the training programme. If selected, I shall attend the programme for the entire duration. The information provided herewith is true to the best of my knowledge.

Signature of the Applicant

### SPONSORSHIP

This is to certify that \_\_\_\_\_ is regular employee of our Institution and is hereby sponsored for attending one week **sponsored Faculty Development Programme**. He / She will be permitted to attend the course for the entire duration, if selected.

Place:  
Date:

Signature with seal  
Head of the Institution