

AICTE-RPS SPONSORED ONE DAY WORKSHOP

on

**Thermal Imaging Technologies in
Research, Operation and Maintenance
in association with FLIR & Vamara Techware**



18th February 2017

CONVENER

Dr. S.VASANTHARATHNA

ORGANIZING SECRETARY

Dr.E. CHANDIRA SEKARAN

COORDINATORS

Ms.S.B.SUPHASENI

Ms.D.KAYALVIZHI

Organized by

Department of Electrical and Electronics Engineering
COIMBATORE INSTITUTE OF TECHNOLOGY
(A Government Aided Autonomous Institution)
Civil Aerodrome Post, Coimbatore-641014.

www.cit.edu.in

ABOUT THE WORKSHOP

Thermal imagers are devices that translate thermal energy (heat) into visible light in order to analyze a particular object or scene. The image produced is known as a thermogram and is analyzed through a process called thermography. Thermal imaging cameras are sophisticated devices that process the captured image and display it on a screen. These images can be used for immediate diagnosis or processed through specialized software for further evaluation, accuracy and report output. Thermal imaging cameras take measuring temperature to the next level; instead of getting a number for the temperature you get a picture showing the temperature profile of a surface.

ABOUT FLIR

FLIR Systems is a leading manufacturer of innovative imaging systems that include infrared cameras, aerial broadcast cameras and machine vision systems. FLIR has been supplying thermography and night vision equipment to science, industry, law enforcement and the military for over 50 years. From predictive maintenance, condition monitoring, non-destructive testing, R&D, medical science, temperature measurement and thermal testing to law enforcement, surveillance, security and manufacturing process control, FLIR offers the widest selection of infrared cameras for everyone, from beginners to professionals. M/s.Vamara Techware is the authorized supplier of FLIR products in TamilNadu & Kerala.

OBJECTIVES

- To understand the need and potential of thermal imaging
- To acquire the professional capability
- To get direct access to thermal imaging experts

RESOURCE PERSONS

Sessions will be handled by experts from FLIR Systems & Experts using the Thermal Imager for Energy Audit, Maintenance & Safety Audits in Industry.

TOPICS OF DISCUSSION

- Thermal Imaging Technology-, Concepts and Science behind
- Role of IR Cameras in Electrical & Mechanical Predictive Maintenance and its benefits
- Applications of IR cameras for preventing transmission Loss in utilities
- IR Thermal Imaging Technology in building applications, Industrial Automation, Scientific Research Bio medical areas
- Selection of IR Camera to best suit for any application
- Briefing about other areas Fire Fighting, Gas Detections in refineries, Security, Surveillance
- Power of Thermal Imaging software in Capture, Analyse, Research, Document IR Images and Radiometric video
- Industrial case studies using Thermal Imaging Camera

ORGANIZING COMMITTEE

Chief Patron

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

Dr.R. PRABHAKAR,
Secretary, CIT, Coimbatore

President

Dr.V. SELLADURAI,
Principal, CIT, Coimbatore

Convener

Dr.S. VASANTHARATHNA,
Professor and Head, Department of EEE, CIT

Organizing Secretary

Dr. E. CHANDIRA SEKARAN,
Associate Professor, Department of EEE, CIT
Coordinators

Ms.S.B.SUPHASENI

Ms.D.KAYALVIZHI

Assistant Professors. Department of EEE. CIT

HOST INSTITUTION

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. The institute has a reputation with service of competent, well qualified faculty and dynamic management to set highest standards in engineering research and development. CIT offers under graduate, post graduate and PhD programs with a global standard curriculum promoting the students to compete internationally. The institute is celebrating its Diamond Jubilee in this academic year (2016-17) and all the courses are accredited by NBA. The institute has collaborated with leading frontier universities and industries in India and abroad for the promotion of innovative research and development. CIT has been awarded with "LOKMAT"-National Education Leadership Award and the world business leader award. The institute also honored with the **Outstanding Engineering Institute (SOUTH)** for **consecutive seventh time** awarded by **ABP NEWS - National Education Awards**.

HOST DEPARTMENT

The Department of Electrical and Electronics Engineering is one of the earliest departments in CIT with offers both under graduate, post graduate and Ph.D programmes. The department has a team of well experienced faculty members having vast experiences in various engineering and technology with specialization in the areas like Power Electronics, Power Quality, Energy Engineering, Power Systems, Control System, Embedded System, VLSI and Wireless communications. The faculty members and students of the department are dedicated to work in the current needs of the industry and have the ability to improve their expertise and incorporating the new technology to meet the emerging industrial challenges. The main objective of the department is to create a highly skilled industry ready workforce do deal with the technical challenges faced by the industries.

TARGET AUDIENCE

This one day workshop is deliberately designed for the

- Faculty from Academic Institutions
- Research and Practicing Engineers
- Public/Private Industries & R&D Establishments

REGISTRATION

The Registration Fee for the participants is **Rs.300** (Including Service Tax @ 15%), to be submitted in the form of demand draft in favor of "The Principal, CIT - Coimbatore". The registration fee includes registration kit, lunch and refreshments. The Interested participants are requested to send the filled in registration form along with DD to the address mentioned below on or before last date. The participants may also remit the registration fee by NEFT/RTGS/IMPS. The details of the account is as follows.:

Beneficiary Name : **ICREU**
Account Number : **6176957103**
Type of Account : **SAVINGS BANK (SB)**
IFS Code : **IDIB000S107**
Name of the Bank: **INDIAN BANK**
Branch : **PEELAMEDU**
Address : **CIT COLLEGE CAMPUS,
COIMBATORE-641014**

Purpose of Remittance : **REGISTRATION FEES**

IMPORTANT DATES

Last date for registration	14 th February 2017
E-mail Confirmation	15 th February 2017

Registration forms to be sent to:

Dr.E. CHANDIRA SEKARAN,
Associate Professor,
L-406, Library Buildings,
Department of Electrical and Electronics Engineering,
COIMBATORE INSTITUTE OF TECHNOLOGY,
COIMBATORE – 641 014, Tamil Nadu, India.
Mobile - +91 9486353930,+91 9655247103
Email: citeeflir@gmail.com

Coimbatore Institute of Technology: Coimbatore Department of Electrical and Electronics Engineering Thermal Imaging Technologies in Research, Operation and Maintenance Registration Form

1. Name: _____

2. Organization: _____

3. Designation : _____

4. Professional Category (Please tick):

Industry Academic Research

5. Communication Address: _____

6. Phone : _____

7. Mobile: _____

8. Email: _____

9. Mode of Payment : DD/NEFT/RTGS/IMPS

DD No. _____ Date: _____

NFET/RTGS/IMPS Transaction No. & Date:

Bank Name: _____

Amount: _____

DECLARATION:

The given information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme.

Place:

Date:

Signature of the Applicant