

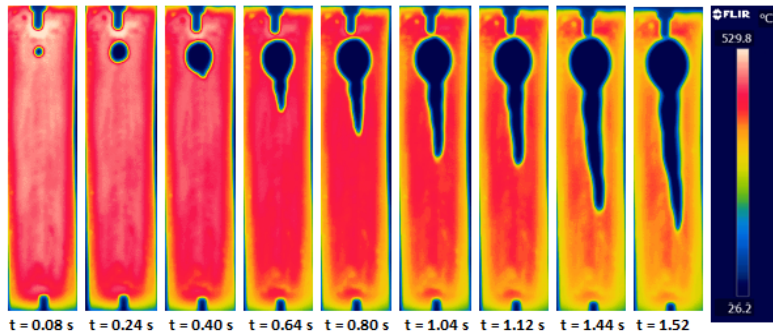
A SHORT TERM COURSE

ON

Measurement Techniques in Thermal Engineering:

Recent Advances

(May 30-31, 2014)



Course Coordinator(s)

Dr. Santosh K. Sahu

Dr. E. Anil Kumar



Discipline of Mechanical Engineering
INDIAN INSTITUTE OF TECHNOLOGY INDORE

COURSE FEE:

Rs. 15,000 (for industry person)

Rs. 8,000/- (for a person from the academic/research organization)

Rs. 5000/- For students

The course fee includes study material, breakfast, lunch, and tea for the entire course duration.

Group discount: 15% group discount will be given if more than two participants come from the same organization

MODE OF PAYMENT:

Through demand draft drawn in favor of Registrar, IIT Indore

ACCOMMODATION:

Accommodation can be arranged, if required, in hostel/guest house subject to the availability. Please send request for hostel accommodation to the course coordinator.

NUMBER OF SEATS:

Limited

IMPORTANT DATES:

Last date of sending the registration form along with the course fee	May 15, 2014
Shortlisted candidates would be informed through email	May 20, 2014
Course dates	May 30-31, 2014

The completely filled registration form along with the course fee should be sent to the following address latest by **May 15, 2014**

ADDRESS FOR CORRESPONDENCE:

Dr. S. K. Sahu

Mechanical Engineering Discipline

Indian Institute of Technology Indore

PACL Campus, Survey No. 113/2-B,

Opposite to Veterinary College,

Indore-MHOW Road, Pin code: 453 446

Tehsil MHOW, Distt. INDORE, (MP) India

E-mail: sksahu@iiti.ac.in; santosh.sahu04@gmail.com

Phone: +91-7324-240730 (O)

Fax: +91-7324-240700

REGISTRATION FORM

Name:

Designation:

Institution/Organization:

Address:

E-mail id:

Phone/Mobile No:

Fax No:

Education (from Graduation/Diploma onwards):

Degree	Institution	Specialization	% Marks or CPI	Year of passing

Areas of Interest:

Payment details

Demand draft no. _____ dated _____

Amount in Rs. _____ drawn at _____

Name and address of the Sponsoring Organization:

Signature of the applicant with date

OBJECTIVES OF THE COURSE:

This short-term course is aimed at providing the fundamental knowledge about the experimental methods and measurement techniques in the field of fluid mechanics and heat transfer. Measurement of various parameters such as: flow rate, pressure and temperature will be discussed in detail to have the basic knowledge of the experimental methods. Emphasis will also be given to introducing modern probes, transducers and instrumentation used in flow and heat transfer experiments. Demonstration and hands-on-sessions on certain equipments would complement the theoretical aspects of the course. Overall, the objective of the course is to help the engineers and researchers to design in the experiments in thermo-fluids engineering.

COURSE CONTENTS:

The lectures will cover the following topics:

- Essence of experimental investigation amidst of growing trends in analytical and computational methods
- Basics of different pressure gauges, flow measuring techniques and temperature measuring techniques
- IR thermography
- Particle image velocimetry (PIV)
- Hotwire anemometry (HWA)
- Laser Doppler velocimetry (LDV)

TRAINING/ DEMONSTRATION/ HANDS ON SESSIONS:

A hands-on session of total 3 hours duration will be held on the measurement of various parameters.

WHO SHOULD ATTEND:

- College teachers of Mechanical, Chemical, and Civil departments who have taught fluid mechanics and heat transfer courses.
- Thermal Design engineers, R&D consultants and Engineers/Students working in the area of temperature and flow measurement, Application and Analysis

PROFILE OF THE SPEAKERS:

FACULTY	AREA OF EXPERTISE
Dr. Amit Agrawal Associate Professor, Department of Mechanical Engineering, IIT Bombay, India	Use of modern experimental techniques in fluid and heat transfer
Dr. Santosh Kumar Sahu Assistant Professor, Discipline of Mechanical Engineering, IIT Indore, India	Thermal hydraulics, impinging jets, micro devices, heat transfer by nanofluids,
Dr. E Anil Kumar Assistant Professor, Discipline of Mechanical Engineering, IIT Indore, India	Hydrogen storage, renewable energy, Sorption refrigeration