

**One week FDP on
“Microelectronics and MEMS”**

4th July, 2016 to 8th July, 2016

(Under TEQIP-II)

Organized by

**Department of Applied Electronics
&
Instrumentation Engineering**



Heritage Institute of Technology

Chowbaga Road, Anandapur,

P.O.: East Kolkata Township,

Kolkata 700107

Web: www.heritageit.edu



Patrons:

- Mr. P. K. Agarwal, CEO, Kalyan Bharti Trust
- Mr. Probir Roy, Director, Kalyan Bharti Trust Prof. Pranay Chaudhuri, Principal & TEQIP-II Head, HITK
- Prof. B.B. Paira, Advisor, Kalyan Bharti Trust Prof. D. C. Ray, TEQIP-II Coordinator, HITK
- Prof. S. N. Biswas, Deputy Director, HITK

Convener

- Dr. Madhurima Chattopadhyay, HOD, Department of Applied Electronics & Instrumentation Engineering

Coordinator

- Mr. Arindam Sarkar
Assistant Professor, Department of Applied Electronics & Instrumentation Engineering

Organizing Committee

All faculties from department of Applied Electronics & Instrumentation Engineering

REGISTRATION FEE

Faculty from AICTE Recognized Engineering

Colleges: Rs. 1,500/-

Officials from Industry/R&D: Rs. 5,000/-

Faculty from HIT, Kolkata: NIL

Outside Applicants are requested to pay Registration Fee in cash on the spot.

**Heritage Institute of Technology
Kolkata – 700107**

Registration form

Name:.....

Designation:.....Dept:.....

Institution:.....

Address:.....

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Phone:.....Fax:.....

Mobile No:.....

Email ID:.....

Note:

- No TA/DA will be paid by the host institution.
- Seats are limited and selection will be done on first come first serve basis

Signature

Signature & Seal
Principal/HOD

About the Institute

Inspired by the noble cause of education and philanthropic zeal, a group of twenty-two like minded industrialists in Kolkata established in 1990 the Kalyan Bharti Trust (KBT), a public charitable foundation, to promote and provide higher education in the country and in State of West Bengal, in particular. To achieve KBT's objective, The Heritage School (THS) and Heritage Institute of Technology (HIT-K) were set up in 2001, while The Heritage Academy (THA) came up in 2007. Management Education Centre of HIT-K, which is accredited by NBA, has been accorded an independent status by AICTE as Heritage Business School (HBS) in 2013.

HIT-K was set up with a view to creating a Centre of Excellence in technical education in Eastern India. The aim is to be a leader in technical education in the country and to be at par with the best in the world. Since inception, HIT-K has been fortunate to attract the best possible faculty and has created one of the finest infrastructures available in West Bengal. All its eligible B.Tech Programmes are accredited by NBA and it has been granted autonomous status by UGC w.e.f. AY 2014-15. There are further expansion plans which are intended to be implemented in phases to elevate the status of this Institute to that of a Private University.

A harmonious integration of valued traditions with modern outlook is the guiding principle behind the development of academic environment that constitutes the basic philosophy of the Institute.

About the FDP

Micro-electromechanical systems (MEMS) is a technology that combines computers with tiny mechanical devices such as sensors, valves, gears, mirrors, and actuators embedded in semiconductor chips. Global position system sensors can be included with courier parcels for constant tracking and sense parcel treatment en route. Sensors built into the fabric of an airplane wing so that it can sense and react to air flow by changing the wing surface resistance; effectively creating a myriad of tiny wing flaps. The main objective of this program is to form a bridge between the industry and academic personnel to update their knowledge and to impart the basic concepts and techniques to the budding technical teachers of all the Engineering colleges in India. It is useful to enhance their skills for academic growth and also to make them conducive for research activity in the field of Microelectronics and MEMS.

Contents :

The Programme deals within the topics mentioned below which will impart a good understanding of latest issues related to Microelectronics and MEMS.

- ❖ Theoretical modelling and simulation of microelectronics and MEMS
- ❖ Overview of Micro & Smart Systems
- ❖ Smart Materials
- ❖ Microfabrication Technologies and Processes
- ❖ Device Integration
- ❖ MEMS Applications: MEMS based sensors.
- ❖ Micro fluidics and BioMEMS
- ❖ MEMS devices and Packaging
- ❖ Electronics Interface for MEMS

Resource Persons

- **Mr. Sripadaraja. K, SriDutt Technologies Pvt. Ltd.**
- **Dr. Sanatan Chattopadhyay, Department of Electronic Science, University of Calcutta**
- **Dr. Biswajit Ghosh, Department of Energy Science , Jadavpur University**
- **Dr. Soumen Das, Department of Medical Science and Technology, IIT, Kharagpur**

Address for Communication

Interested candidates can send the softcopy of registration form to the coordinator within 24th June, 2016

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