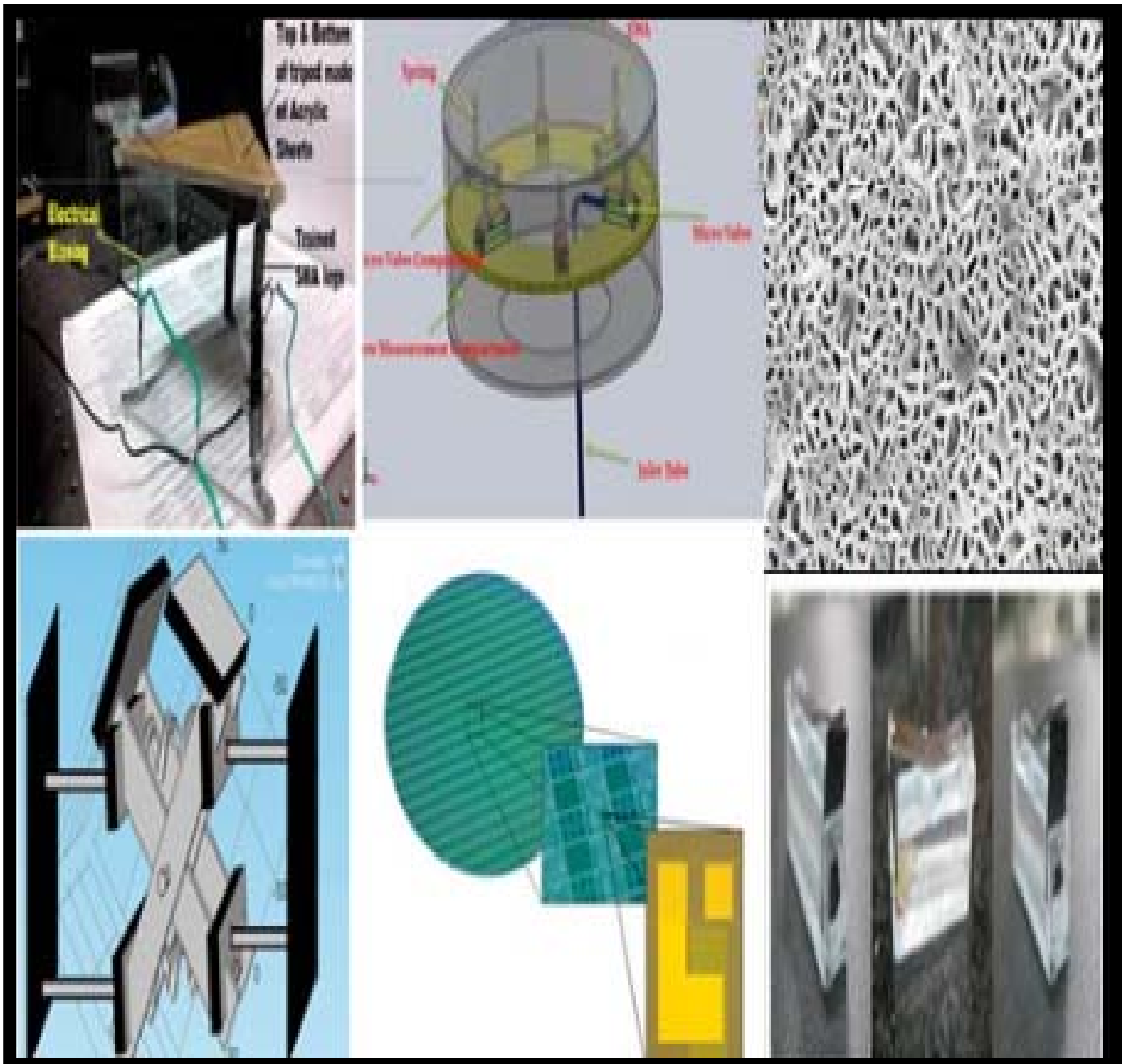


**TEQIP-III Sponsored Short-Term Course on
Mechatronics, MEMS and Micro-Fabrication
(27th -29th March 2019)**





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Indian Institute of Technology Indore

Course Coordinator

Dr. I.A. Palani

**Discipline of Mechanical Engineering
INDIAN INSTITUTE OF TECHNOLOGY INDORE**

Dr. Vipul Singh

**Discipline of Electrical Engineering
INDIAN INSTITUTE OF TECHNOLOGY INDORE**

A Three day short- term course on mechatronics, MEMS and micro-fabrication sponsored by TEQUIP has been organized at IIT Indore. Micro electromechanical systems (MEMS) present a unique platform where both electrical and mechanical components are fabricated on a single wafer. Some of the fastest growing areas which utilize different MEMS sensors and actuators are entertainment industries, consumer electronics, medical, defense, space industries, etc. The electro mechanical device basically includes micro actuators, micro sensors, micro transducers, microswitches etc., these micro device have occupied their own positions for different applications ranging from bio medical, aerospace, defense, energy and day to day life. Mechatronics MEMS and micro fabrication are interlinked areas, focusing towards the development of micro devices for the benefit of mankind.

The total 25 participants registered for the course of which 14 are students and research scholars from SGSITS, Indore. Apart from them participants were from

- Chameli Devi Group of Institutions,
- MBM Engineering college, Jodhpur,
- SVNIT Surat,
- A.C college of Engineering and Technology, Karaikudi, Tamil Nadu,
- EGSPEC college, Tamil Nadu
- Government college of Engineering, Kannur.

The course was inaugurated by Acting Director and Dean Academic Affairs, Prof. Neelesh Kumar Jain and Associate Dean Academic affairs Dr. Amod Umarikar. Morning sessions had lectures and afternoon session had laboratory sessions. First day lecture was handled by Dr. Vipul Singh and Dr. I.A. Palani. The second day lecture was Handled by Dr.Amod Umarikar and Dr,Vipul Singh. For the third day lecture we had two external speakers. Dr. Karunanidhi, Director, Controls Lab, IMRAT DRDL, Hyderabad and Dr. Balasubramanian, Head Precision Engineering Lab , BARC. We also had a lecture session by Dr. Bhupesh K Lad on Reliability of MEMS device.

The course ended with a valedictory function, where the participants live feedbacks were taken. The certificates to the participants were distributed by Dr.Amod Umarikar, Associate Dean Academic Affairs.



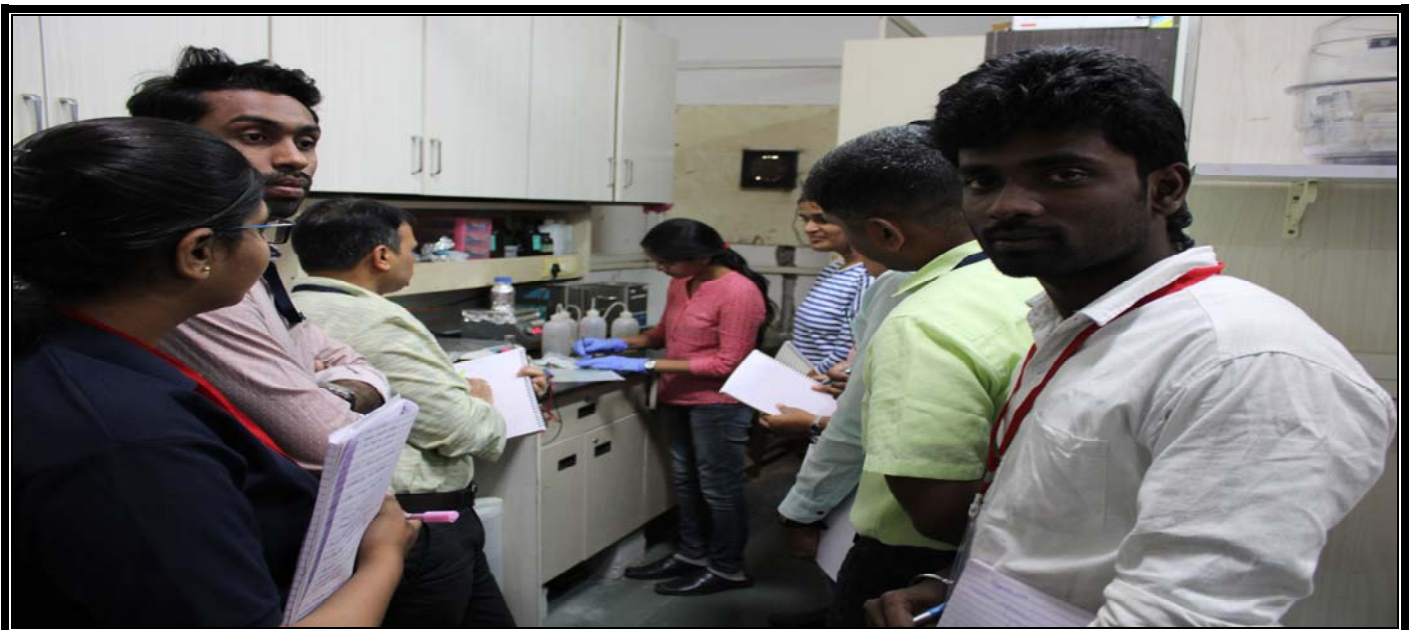
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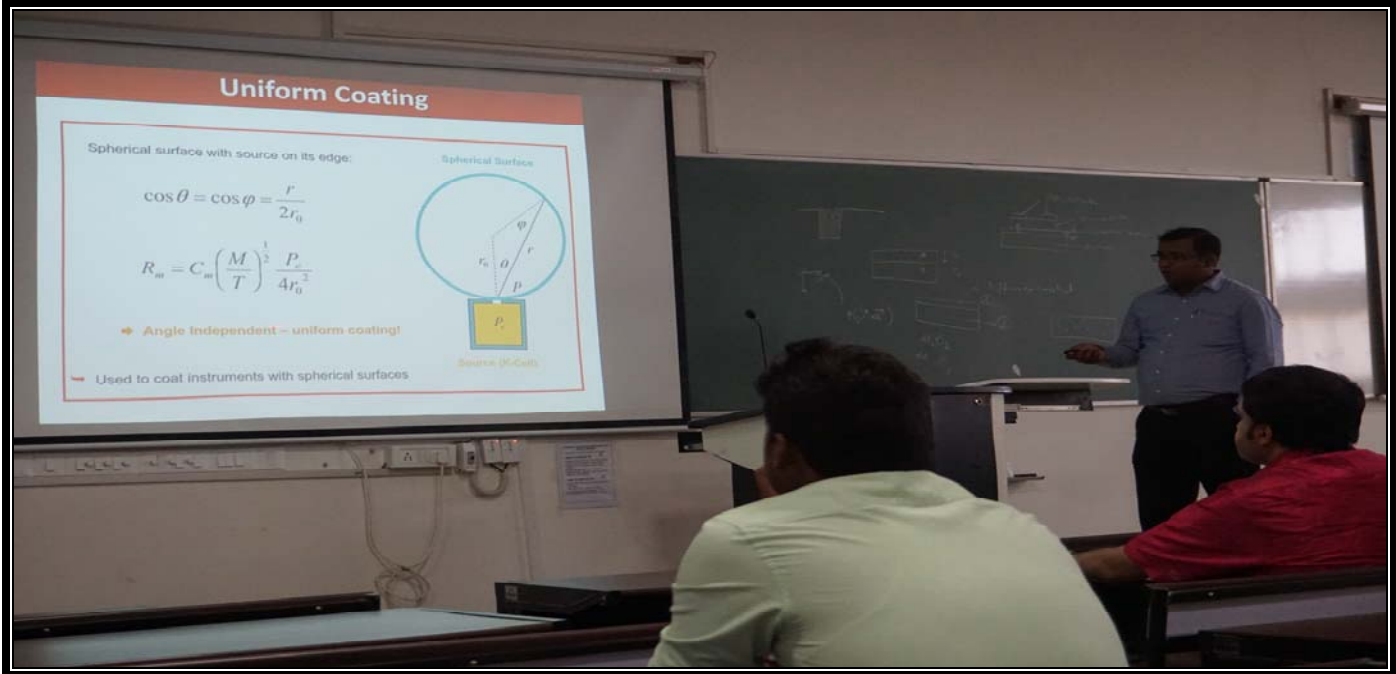
Inauguration session



Lab Session on micro-fabrication



Lab session on opto-mechatronics system design





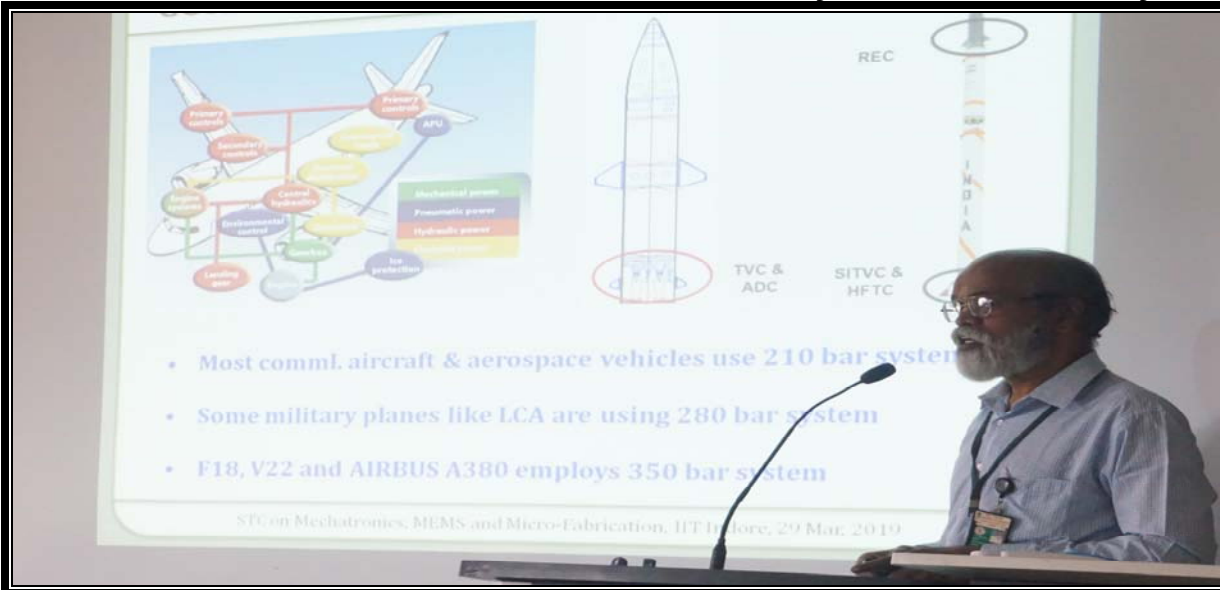
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Lecture Delivered by Dr. Amod Umarikar



Interaction with Dr. S. Karunanidhi, Director Control systems Lab, DRDL, Hyderabad



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Lecture by Dr. I.A.Palani



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Lecture Delivered by Dr.Balasubramanian, Head Precision Engineering, BARC

Lecture Delivered By Dr.Bhupesh K Lad.



Group Photograph of Participants



Certificate Distribution

