

Registration:

Online Registration has to be done through the following link:

<https://atalacademy.aicte-india.org/sign-up>

(Search by title or date of the program)

Approval:

The participants will be approved by the coordinator of the program through online mode.

Eligibility

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Engineers/ Technicians).

Max. number of participants is limited to 200

Registration Fee: No registration fee

Convenor

Dr. L. Sujatha, Professor/ECE

Head/Centre of Excellence in MEMS & Microfluidics

Contact e-mail: sujatha.l@rajalakshmi.edu.in

About CEMM

Centre of Excellence for MEMS & Microfluidics (CEMM) at REC motivates the research activity in the field of MEMS and Micro-fluidics from design to fabrication of prototypes. The main objective of the center is to design and fabricate successful devices using low-cost process flow suitable for mass production. The Center has the laboratory facilities such as National MEMS Design Centre, Electronics Wet lab, UV Exposure System, Characterization lab and Thin Film Deposition Lab. Recently, this center is augmented with Clean Room facilities of type ISO 6 and ISO 7. We are carrying out sponsored research projects under various funding agencies such as DST, DRDO, BRNS, AICTE and UGC. We also collaborate with Industries and National Research Laboratories

About the FDP

Lab-On-a-Chip (LOC) is a device which utilize the microfluidic technology to scale down single or multiple lab processes to chip format. It can handle extremely small fluid volumes of reagents or samples in the range of pico-liters. This technology leads to develop hand-held diagnostic systems and achieve automation and high throughput screening. Research is going on all over the globe in materials, processes and embedded detection techniques for LOC. This program gives technical rich presentations by keynote speakers and hands on training on fabrication of microfluidics

Objectives

- To provide a forum to the participants to quench their thirst for creativity in frontier areas of Lab-On-a-Chip.
- To present the most recent research and developments in the field of LOC
- To inculcate skills on micro-fabrication techniques

RESOURCE PERSONS



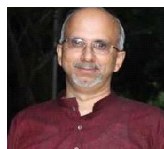
Dr. L. Sujatha
REC



Prof. Enakshi Bhattacharya
IITM



Dr. A. T. Nimal
SSPL, DRDO



Prof. S. Pushpavanam
IITM



Dr. Himanshu
INMAS, DRDO



Dr. Ashis K. Sen
IITM



Mr. Nour Yakdi
Fluigent, France



Mr. M.M.C. Kishore
Global Marketing Services



Dr. K. Karthikeyan
MKCE, Karur



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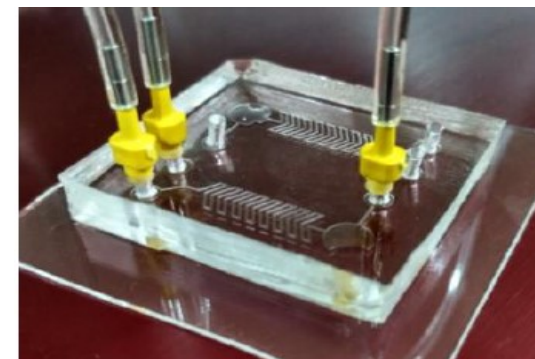


**AICTE TRAINING AND LEARNING
(ATAL) ACADEMY SPONSORED**

**A 5 DAY ONLINE FACULTY
DEVELOPMENT PROGRAM**

on

“Lab – On – a- Chip (LOC)”



**12 – 16 July 2021
ONLINE PROGRAM**



Rajalakshmi
Institutions



Organized by

**Centre of Excellence in MEMS &
Microfluidics**

**RAJALAKSHMI ENGINEERING
COLLEGE (AUTONOMOUS)
CHENNAI – 602 105**

www.rajalakshmi.org

SCHEDULE

Day	Session 1	Session 2	Session 3
1	L1 - Introduction to Lab-On-a-Chip Dr. L. Sujatha, Head/CEMM, REC	L2 - Biosensing with Silicon Dr. Enakshi Bhattacharya, Professor/Dept of EE, IITM	P1 – CAD Design & FEA Simulation of microfluidics for Lab-on-a-Chip Mrs. A. Suganya, JRF/CEMM Mr.Manivasan, Project Asst,CEMM
2	E1 – Stress Management Dr. Ragothaman, Dept of MBA, REC	L3 – Microfluidic Technology for Plasma Separation Dr. Ashis Kumar Sen, IITM	P2 Fabrication of Microfluidics for LOC Mrs. S.Kalaiselvi, SRF/CEMM
3	L4 – Fabrication of Microfluidics by soft lithography technique Dr.L.Sujatha , Head/CEMM, REC	L5 – Micro-bubble formation for protein separation Dr. S. Pushpavanam, IITM	P3 – Testing of Microfluidic Devices Mr. P. Madhankumar, SRF/CEMM
4	L6 –Applications of Microfluidics for Hazardous Chemical Sensors Dr. Nimal, Scientist ‘F’ Solid State Physics Laboratory, DRDO, Delhi	L7 – Lab-On-a-Chip Applications in Forensic Science for DNA analysis Dr. Himanshu, Scientist ‘E’ INMAS, DRDO	P4 – Microfluidic flow control instruments for Lab-on-Chip applications Dr Nour Yakdi, Fluigent - Smart Microfluidics, France
5	L8 – Microfluidics for Heavy Metal Ions Detection Dr. K.Karthikeyan, Kumarasamy College of Engineering, Karur, Tamilnadu	L9 – Material and Equipment for Realizing Lab-on-Chip Mr. M.M.C. Kishore, CEO, Global Marketing Services, Bangalore	Test /Feedback
			Valedictory