



**DEPARTMENT OF BIOMEDICAL ENGINEERING**  
**NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR**  
*(Institute of National Importance)*

**G. E. Road, RAIPUR (Chhattisgarh) 492 010**

## **Details of Expert Lecture**

An invited Expert Lecture of **Mr. Muthuraman Swaminathan, Co-founder and CEO of InFab Semiconductor Pvt. Ltd** was conducted by the Department of Biomedical Engineering as per the following schedule.

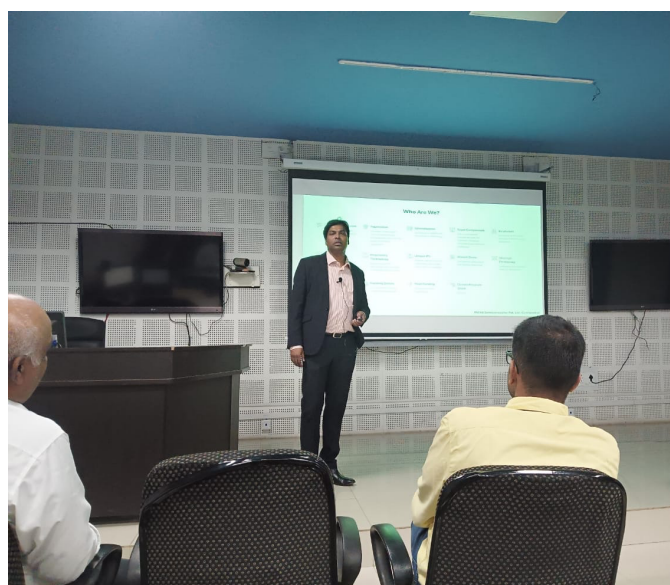
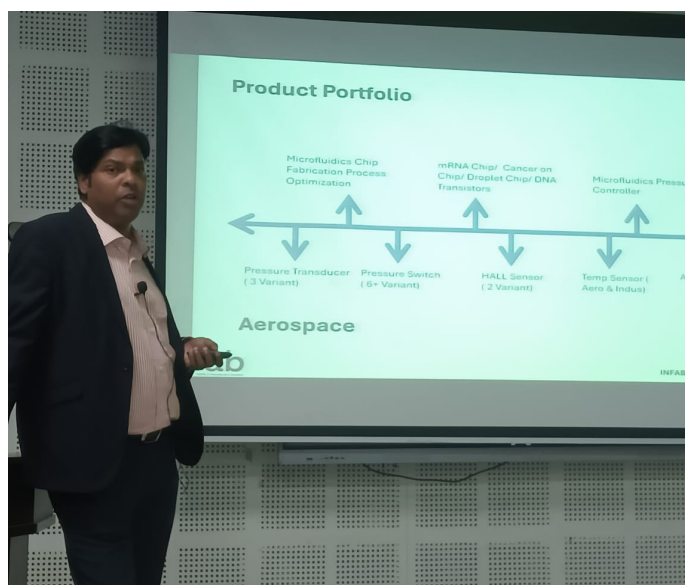
Topic of the Lecture: **“Challenges with commercialization of Microfluidic Devices”**

Date: 4<sup>th</sup> February 2025 (Tuesday)

Time: 2.45 PM onwards

Venue: D2, NIT Raipur

In recent years, commercialization of newly evolved microfluidic devices is a recent trend. This lecture mostly consists of the development of the new microfluidic based medical devices, specially point of care device development and its current market standards. In addition, the lecture also covers various fabrication methods that are necessary to develop a compact microfluidic point of care diagnostic device. Furthermore, it also covers the range for the commercialization of those devices as well as its limitations and challenges. Finally, the necessary actions that need to be overlaid are also discussed to overcome such challenges during commercialization.



**Dr. Mainak Basu**  
IICC Departmental Coordinator  
Department of Biomedical Engineering