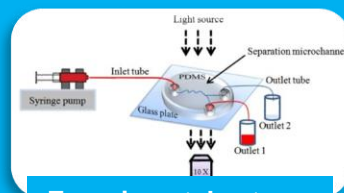


Microfabrication



Experimental setup



Microfluidic Device



Microscope



# Five Day National Level Online Faculty Development Program

on

## Advancements in Microfluidic Technologies

20<sup>th</sup> to 24<sup>th</sup> February 2025

Organized by

Department of Mechanical Engineering

MAEER's MIT College of Railway Engineering & Research (MITCORER), Barshi, MH, India

In Association with

Indian Society for Technical Education (ISTE), New Delhi



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### About Institute

MIT College of Railway Engineering and Research (MITCORER), Barshi, established by the MIT Group, offers a railway-focused curriculum with practical, real-world learning. The institute has five engineering branches. The college emphasizes experiential learning through projects, internships, interactive classes and strong industry connections. With state-of-the-art facilities and strong industries, it aims to create future leaders in Railway Technology and industries.

### About Department

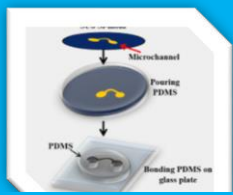
The Department of Mechanical Engineering at MIT Barshi offers a B.Tech program focused on research, industry collaboration, and entrepreneurship. With advanced facilities and faculty development opportunities, it prepares students for careers in manufacturing and agricultural equipment. The department has a 100% placement record and offers a One-Year Diploma in Railway Engineering.

### About FDP

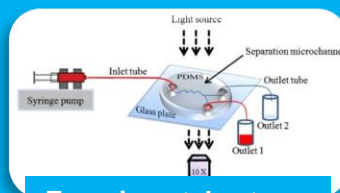
The program aims to inculcate knowledge of microfluidics to faculties and research scholars of various disciplines that will help them in their research. This FDP will cover recent advancements, challenges, and future opportunities in microfluidic technologies.

### Key Highlights

- Introduction to Microfluidics
- Rarefied Gas Flow in Microchannels
- ELISA in Microfluidics
- Organ-on-Chip for Clinical Applications
- Inertial Microfluidics
- Heat Transfer Phenomenon in Microchannels
- Emerging Trends in Microfluidics
- Scalable Fabrication



Microfabrication



Experimental setup



Microfluidic Device



Microscope

## FDP Schedule

### Day I (20<sup>th</sup> Feb)



**Dr. Siddhartha Tripathi**  
Asst. Prof. BITS Pilani (Goa)

**Introduction to Microfluidics:  
Fundamentals & Opportunities**  
11:00 AM to 12:30 PM



**Dr. Vadiraj Hemadri**  
Asst. Prof. BITS Pilani (Goa)

**Rarefied Gas Flow in  
Microchannels**  
03:00 PM to 04:30 PM

### Day IV (23<sup>rd</sup> Feb)



**Dr. Sanjay Pawar**  
Asso. Prof. Fabtech College of Engg.  
Sangola (MH)

**Design, Manufacturing & Fluid Flow  
Analysis of SAR Microchannel**  
11:00 AM to 12:30 PM

**Microfabrication: Video Session**  
03:00 PM to 04:30 PM

**Contact  
Name:** Dr. Sanjay Mane

### Day II (21<sup>st</sup> Feb)



**Mr. Deepak Masalekar**  
Asst. Prof. WIT Solapur (MH)

**Emerging Trends in  
Microfluidics**  
11:00 AM to 12:30 PM



**Dr. Mohamed Yousuff Caffiyar**  
Principal Scientist, INFAB Semiconductor  
Pvt Ltd, Bangalore (KA)

**Translational Breakthroughs with  
Microfluidics & Organ-on-Chip**  
03:00 PM to 04:30 PM

### Day V (24<sup>th</sup> Feb)



**Dr. Sanjay Mane**  
Asst. Prof. MIT Barshi (MH)

**Inertial Microfluidics for  
Blood Cells Separation**  
11:00 AM to 12:30 PM

**Doubt Session**  
03:00 PM to 04:30 PM

**Email:** Sanjay.mane@mitcorer.edu.in  
**Phone:** +91-8999044605

### Day III (22<sup>nd</sup> Feb)



**Dr. Vijay Duryodhan**  
Asst. Prof. IIT Bhilai (CG)

**Heat Transfer in  
Microchannels**  
11:00 AM to 12:30 PM



**Dr. Anasuya Ganguly**  
Asso. Prof. BITS Pilani (Goa)

**Antibodies, ELISA &  
Microfluidics**  
3:00 PM to 04:30 PM

**Registration fee is Rs. 200/-**

For participants from Academic/  
Industry/ Research Scholars/  
Students (Diploma, UG, PG)

**Registration Link:**

<https://forms.gle/9Q2LvjpgE6ZBe3M6q8>

**Scan  
To Pay**

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Mr. Niraj Adhye

