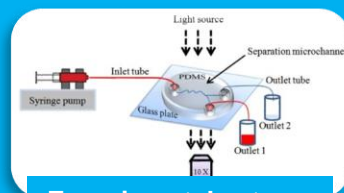


Microfabrication



Experimental setup



Microfluidic Device



Microscope



Three Day National Level Online Faculty Development Program

on

Advancements in Microfluidic Technologies

20th to 22nd 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, 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

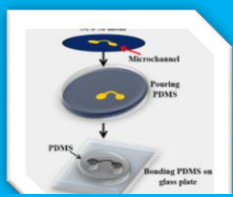
The Department of Mechanical Engineering at MIT Barshi offers a B.Tech program focused on research, industry collaboration, and entrepreneurship. With advanced facilities and faculty development opportunities, it prepares students for careers in manufacturing and agricultural equipment. The department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

About FDP

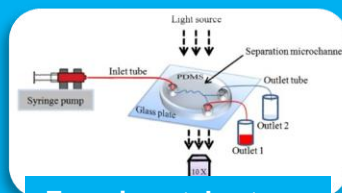
The program aims to inculcate knowledge of microfluidics to faculties and research scholars of various disciplines that will help them in their research. This FDP will cover recent advancements, challenges, and future opportunities in microfluidic technologies.

Key Highlights

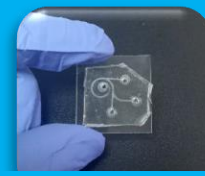
- Introduction to Microfluidics
- Rarefied Gas Flow in Microchannels
- ELISA in Microfluidics
- Organ-on-Chip for Clinical Applications
- Inertial Microfluidics
- Heat Transfer Phenomenon in Microchannels
- Emerging Trends in Microfluidics
- Scalable Fabrication



Microfabrication



Experimental setup



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Microscope

FDP Schedule

Day I (20th 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

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/9Q2LvJgE6ZBe3M6q8>

Day II (21st Feb)



Dr. Anasuya Ganguly
Assoc. Prof. BITS Pilani (Goa)

Antibodies, ELISA & 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

2:00 PM to 03:30 PM



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

Inertial Microfluidics for Blood Cells Separation

4:00 PM to 05:00 PM

Day III (22nd Feb)



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

Heat Transfer in Microchannels

11:00 AM to 12:30 PM



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

Emerging Trends in Microfluidics

3:00 PM to 04:30 PM

Pay registration fees as instructed

Account Name: Mr. Niraj Adhye

Account No: 071810110005983

IFSC Code: BKID0000718

Bank: Bank of India

Branch: Kurduwadi

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To Pay



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