



Module PMRF-ISSS014

Fluid Dynamics

Name of the PMRF student

Aditya Anand

PhD-2nd Year, IISc

Required background of the students taught

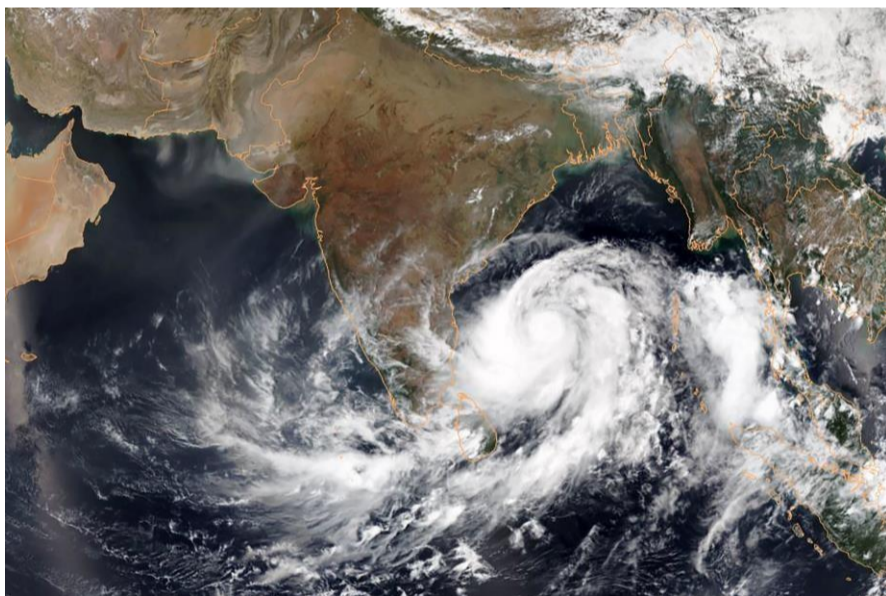
Mechanical Engineering,
Aerospace Engineering
Civil Engineering,
Chemical Engineering

Faculty coordinator

Rachith S N

Online session coordinator

Omkar Singh



Details of the content of the module

The course aims to introduce fluid dynamics to undergraduate students with a special focus on the boundary layers and turbulent flow. This is to aid students who plan to do research in boundary layers and turbulent flows as a career option.

1. The Fundamentals
2. Fluid Kinematics
3. The forces in fluid flow
4. Principles of Similarity and Dimensional Analysis
5. Dynamics of Static Fluid/Rigid Body Motion
6. Dynamics of Inviscid Flow
7. Dynamics of Viscous Flow
8. Boundary Layer
9. Turbulent Flows

Schedule of the module

Timings:

Tuesday and Thursday 4:30 – 6:00 PM

Course Starts on 3rd September 2021

Meeting Link: <https://tinyurl.com/9zy2eh9m>

Registration Link : <https://tinyurl.com/4ex2uyua>



Meeting Link



Registration Link

Contact email ID: iss.forum@gmail.com