



जैव प्रौद्योगिकी विभाग
Department of Biotechnology
Ministry of Science & Technology
Government of India



One Day Workshop on Introduction to Mathematical Modelling with Ordinary Differential Equations 2nd November 2023

About the workshop:

The workshop aims to provide training for faculty and students on introduction to mathematical modelling with ordinary differential equations using Python. The workshop will cover model construction, solving differential equations (analytical and numerical), parameter variation, and stability analysis, explained using examples from biological systems. The basics of Python required to implement the models will be briefly covered at the start of the workshop.

Speakers:

Dr. Pranay Goel is an Associate Professor at IISER Pune. He is interested in studying biological systems using mathematical (analytical, computational, and algorithmic) approaches. His main focus areas are mathematical physiology and type 2 diabetes. He is also interested in data science, and predictive modelling for healthcare and precision (personalized) medicine.

Dr. Chetan Gadgil is a Chief Scientist and Head of the Chemical Engineering department at NCL, Pune. He is also associated as a Scientist with IGIB, New Delhi. His research interests include using mechanism-based mathematical modelling to understand biological systems to study signal transduction, target identification, disease, and drug delivery.

Organized by
DBT-Bioinformatics Center and CSIR-NCL SDP

Venue: SSBLT Auditorium, PAML, CSIR-NCL, Pune

Date: 2nd November 2023

Time: 9.30 am – 5.30 pm

Registration link: <https://forms.gle/G3xY7H18oLd2cdPs5>

Deadline for registration: **28th October, 2023**

No Registration Fees.

For more details please contact:

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Organizing Committee

Dr. Chetan Gadgil
Dr. Durba Sengupta
Dr. Ram Rup Sarkar