



In Association with  
Ritvij Bharat Pvt. Ltd. (RBPL)



organizes

## Online Certification Course on "Python Programming for Computational Fluid Dynamics Applications"

10<sup>th</sup> June– 26<sup>th</sup> July, 2024

Time: 7:00 pm-9:00 pm

(Monday-Wednesday-Friday)

Total Course Duration: 42 Hrs

**Instructor**

**Dr. Manash Pratim Borthakur**

Ph.D. in Mechanical Engineering

Specialization in CFD methods for diverse fluid  
flow problems

Certificates to participants by

**E&ICT Academy IIT Guwahati & RBPL**

Registration Deadline

9<sup>th</sup> June, 2024

  
Venue  
Online

### Why this Course?

- Python is extensively used in research organizations/industries working in the fields of CFD, thermodynamics, heat transfer, energy-related analysis and aerodynamic design.
- These industries look for Mechanical/Aerospace Engineers having knowledge of Python Programming as a desired skill.
- Python skills will also help Mechanical/Aerospace graduates to explore enormous possibilities in the field of Data Science.

### Course Objectives

- To make the participants learn the basics of Python programming.
- To provide a solid understanding of the numerical methods and nuances involved in solving CFD problems.
- To make the participants learn about the Python libraries and how to use them to manipulate Data, perform computations and visualize results.
- To make the participants comfortable in solving governing equations of fluid flow using Python

### Target Audience

- B.E./B.Tech/ME/M.Tech/M.S Students of Mechanical/Aerospace/Civil/Chemical/ Applied Mechanics/Mathematics/related fields.
- Ph.D. Research Scholars, JRF/SRF/Research Associates/faculty members/working professionals working in Numerical or Experimental fluid mechanics & heat transfer, CFD, Numerical Analysis, Aerodynamics or any related fields.

### Pre-Requisites

- Basic knowledge on Fluid Mechanics & Heat Transfer
- High speed internet connectivity
- Laptop/Desktop with minimum 4 GB RAM
- **No** prior knowledge on Python is required

### Course Fees

- STUDENTS(B.E/B.Tech/M.E/M.Tech/B.Sc./B.S./M.Sc./M.S.) ₹ 5,000/-  
(Persons having any one of the above degrees and currently not engaged are also eligible to apply as STUDENTS)
- Ph.D. Research Scholars/JRF/SRF/Research Associates/ Postdoctoral fellows ₹ 5,000/-
- Faculty/Working Professionals ₹ 7,000/-  
(Amounts inclusive of GST)

### Registration Process

Go to the link below (Payment process)

<https://rzp.io/I/PythonforCFD>

Next go the link below for Registration process

<https://forms.gle/uHUbTp63d6gAtoKSA>

### Expert Profile

**Dr. Manash Pratim Borthakur**

Ph.D. in Mechanical Engineering (CFD Specialization)

- Postdoctoral researcher at KTH Royal Institute of Technology, Sweden (2021-22)
- Worked as a postdoctoral researcher at National Research Council, Italy (2022-23)
- Currently associated as a CFD consultant for an Italian R&D firm Medlea S.r.l.s.

Total Experience: 4+ years.

### Contact Info

**Dr. Subrat Kotoky** (Coordinator)

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