



**John Wilson Education Society's
Wilson College, Mumbai
Under the DBT Star Strengthening Scheme**

In collaboration with

Indian Association of Physics Teachers

Mumbai Sub-Regional Council (8B)

announces

**Winter-School 2024 in Astronomical
Calculations**

Date: 27th December 2024 to 2nd January 2025

(6 days with Sunday Holiday)

Time: 09:30 am to 12:00 noon & 2:00 pm to 4:30 pm

(5 hours per day)

Mode: Online (Zoom meeting)

Link will be shared to registered participants

Participants will need laptop/PC (any OS will
do) to work

Register before: 22nd December 2024

Winter School Objectives:

- Expose learners to astronomical calculations and data analysis using Python.
- Orient learners to problems worked on by Professional Astronomers.
- Provide experiential learning opportunity to astronomy enthusiasts.

Winter School Contents:

- Participants are expected to know basics of python and basics of astronomy. Some revision sessions will be done on first two days.
- Use of astropy library for astronomical calculations
- Use of pandas for data analysis
- Enrichment lectures on astronomical model building and interesting problems in astronomy
- Google classroom assignments

Winter School Outcomes:

After completing the course, participants will be able to:

- search for online astronomical data from open sources
- write Python code to manipulate data in the required formats
- analyse data to retrieve meaningful information
- use astropy and other libraries to do perform astronomical calculations

Participants will receive guidance from

- Dr. Varun Bhalerao, Associate Professor, IITB, Mumbai
- Dr. Vandna Luthra, Professor, Gargi College, University of Delhi
- Krittika, the Astronomy Club of IITB, Mumbai
- Mr. Pratik Barve and Mr Jigar Patel, data scientists and ex-students of Wilson College

Eligibility: Any UG or PG student / teacher / astronomy enthusiast interested in astronomical calculations is eligible to apply.

Registration Link: <https://forms.gle/seU2gFBEVZbrKJj1A>

Note: The programme is free of charge. Registration is mandatory for attending session. Certificates will be given to those who complete all assignments

Organisers

Wilson College Team

- 1) Dr. Jamson Masih (I/C Principal, Wilson College)
- 2) Mr. Shekhar Deodhar, (Head, Physics Department, Wilson College)
- 3) Mr. Michael D'Souza (Assistant Professor, Wilson College)
Coordinator, DBT Star Scheme
- 4) Mr. Mahesh Shetti (Assistant Professor, Wilson College),
Winter School Coordinator
- 5) Dr. Kapil Bhatt (Associate Professor, Wilson College)
- 6) Mr. Shubham Mourya (Assistant Professor, Wilson College)

I. A. P. T. Team

- 7) Ms. Rekha Ghorpade, General Secretary, I.A.P.T.
- 8) Mr. A. M. Shaker, Vice President, I.A.P.T. Maharashtra
- 9) Dr. Atul Mody, President, I.A.P.T. Mumbai
- 10) Dr. K. G. Bhole, Secretary, I.A.P.T. Mumbai
- 11) Dr. Shyamala Bodhane, Treasurer, I.A.P.T. Mumbai
- 12) Dr. Kiran Kolwankar, Member, I.A.P.T. Mumbai
- 13) Ms Sushmita Meta, Member, I.A.P.T. Mumbai

Contact for any queries

Mr. Mahesh Shetti, Winter School Coordinator – 91672 09329