

AstroCompute

*National-Level Online Course in Computational Astrophysics
From Fundamentals to Advanced Exploration*

Presented by

Association of All Computer Science Teachers (AACST)

COURSE DETAILS

Duration: 10 Online Sessions

Dates: 21st April – 22nd May 2026

Days: Every Tuesday & Friday

Time: 6:30 PM – 8:30 PM (IST)

Mode: Online

ABOUT THE COURSE

ASTROCOMPUTE is a structured bootcamp that takes participants from numerical thinking to computational exploration of the universe.

The course begins with a Python brush-up (prerequisite) and progresses to numerical methods, simulations, and data analysis. It helps learners understand how computation powers modern astrophysics.

KEY LEARNINGS

- Computational thinking for scientific problem-solving
- Python for scientific computing
- Core numerical methods (integration, root finding, differential equations)
- Turning equations into simulations
- Exploring the universe through computation
- Data analysis and visualization
- Foundation for AI and Machine Learning

MENTOR

Dr. Abha Khandelwal

Founder, AACST

Retd. HOD, Computer Science
Hislop College, Nagpur

CONVENER

Dr. Ojas Garg
MDU, Rohtak, Haryana

RESOURCE PERSONS

Dr. Sathyanarayanan K
Assistant Professor, Department of Physics
The Cochin College, Kerala
Visiting Associate (IUCAA)

Dr. Ojas Garg
Research Associate, PURSE Project
MDU, Rohtak

AACST OFFICE BEARERS

Dr. S. B. Kishor – President
Dr. Pravin Ghosekar – Secretary

WHO CAN JOIN

- Students (Physics / Mathematics / Computer Science / Engineering)
- Teachers and educators
- AI and data science enthusiasts
- Anyone curious about space, computation, and the universe

Application Processing Fees: 1000/- only

REGISTRATION

<https://forms.gle/mYZQ2JQ9KRjYWixU8>