

Certificate Course in Astronomy

Target Audience: Anybody interested in learning basics of astronomy. The participant should have completed class XII. Any college student or even elderly persons can join the course.

Course Objectives: After completion of this course a participant will be able to

- Understand the numerical scale of universe
- Categories various kinds of cosmic bodies at different scales
- Various physical phenomena that govern the cosmic bodies

The medium of instruction: English

Duration: 15 sessions of 2 hours each (21st March to 21st June 2021) on Sundays and holidays.

Mode of conducting: Online (Google Meet)

Fees: Rs. 1500/- per participant

Resource Persons: The resource persons will include experts from various institutions like Nehru Planetarium, T.I.F.R. and Amateur bodies like Khagol Mandal, Akash Mitra Mandal.

Course contents:

1. Introduction to astronomy
2. Sun
3. Terrestrial planets
4. Gas giants
5. Study of Mars
6. Study of Minor bodies in solar system
7. Constellations and Coordinate Systems
8. Time in astronomy and Astronomical Softwares
9. What are stars
10. Evolution of stars
11. Study of Exoplanets
12. Galaxy structure
13. Exotic objects in space
14. Various cosmological models
15. Big Bang model of cosmology

Course Coordinator: Mr. Mahesh Shetti, Assistant Professor,
Physics Department, Wilson College