



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

खगोलशास्त्री

Astronomers and astrophysicists study space, stars, planets and the universe. They analyse data from telescopes and satellites and use theoretical models to unravel the mysteries of the cosmos.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/astronomer

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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सुशील कुमार शर्मा

प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी · मास्टर ट्रेनर
Principal, GSSS Jethantri · Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास · व्याख्याता (इतिहास)
Designed & developed · Lecturer (History)

विशेष धन्यवाद · SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) · रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) · रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

Astronomers and astrophysicists study space, stars, planets and the universe. They analyse data from telescopes and satellites and use theoretical models to unravel the mysteries of the cosmos.

2 At a glance

Minimum qualification	B.Sc → M.Sc → PhD (Physics/Astronomy)
Selection exam	JEST, CSIR-NET, GATE
Work mode	Observatories and research institutes
Starting salary	₹56,000–70,000/month

3 What you need

INTERESTS

- Deep interest in science and space
- Desire to study physics-related subjects
- Enjoy solving problems using computers

ABILITIES

- Logical and analytical thinking
- Strong mathematics
- Patience and curiosity

KEY SKILLS

- Data analysis and modelling
- Programming (Python, etc.)
- Use of telescopes and instruments
- Advanced physics and mathematics
- Scientific writing
- Image processing

4 How to get there

- 1 Complete 10+2 in Science (Physics, Chemistry, Maths).

- 2 Earn a B.Sc in Physics.
- 3 Do an M.Sc in Astronomy / Astrophysics.
- 4 Pursue a PhD for a research career.
- 5 Enter institutes via JEST / CSIR-NET.
- 6 Explore openings at institutes like IIST and IUCAA.

MAIN EXAMS

- JEST (Joint Entrance Screening Test)
- CSIR-UGC NET
- GATE (Physics)
- IIST admission (ISAT)

5 Where to study

GOVERNMENT INSTITUTES

- University of Rajasthan — Jaipur, Rajasthan (<https://www.uniraj.ac.in>)
- Central University of Rajasthan — Ajmer, Rajasthan (<https://www.curaj.ac.in>)
- Indian Institute of Astrophysics (IIA) — Bengaluru (<https://www.iiap.res.in>)
- Inter-University Centre for Astronomy & Astrophysics (IUCAA) — Pune (<https://www.iucaa.in>)
- Indian Institute of Space Science & Technology (IIST) — Thiruvananthapuram (<https://www.iist.ac.in>)
- Indian Institute of Science (IISc) — Bengaluru (<https://iisc.ac.in>)

PRIVATE INSTITUTES

- Loyola College — Chennai
- St. Joseph's College — Bengaluru
- PSG College of Arts & Science — Coimbatore

ONLINE

- SWAYAM / NPTEL (Astrophysics) — Online (<https://swayam.gov.in>)
- Coursera (Astronomy) — Online (<https://www.coursera.org>)
- Udemy (Astrophysics) — Online (<https://www.udemy.com>)

FEES

Course fees range roughly from ₹5,000 to ₹5,00,000. Research scholars at institutes like IIST, IUCAA and IIA receive fellowships. (Figures are indicative.)

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in>)
- Buddy4Study (<https://www.buddy4study.com>)
- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in>)
- Vidya Lakshmi Education Loans (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Public and private observatories, space research institutes, universities and planetariums.

WORK CULTURE

Research and data-analysis work, sometimes with night shifts at observatories. Some local travel is involved. Usually 5-6 days a week, 8-9 hours a day.

WHO HIRES

- | | |
|---|---|
| • Indian Institute of Astrophysics (IIA) | • IUCAA, Pune |
| • Indian Space Research Organisation (ISRO) | • Tata Institute of Fundamental Research (TIFR) |
| • Universities and research institutes | • Planetariums and science centres |

DEMAND (2026)

India's growing space programme and new observatories are expanding research opportunities in astronomy, though positions remain limited and competitive.

7 Career growth

- 1 Junior Researcher
- 2 Astrophysicist
- 3 Senior Scientist
- 4 Head of Department / Director

EARNINGS

Starting	₹56,000–70,000/माह
Mid level	₹1,10,000–1,50,000/माह
Senior level	₹2,00,000+/माह

Research scholars get fellowships and scientists are paid on government scales. Figures are indicative and may change.

8 The good parts · The challenges

The good parts

- Work on the fundamental mysteries of the universe
- Use of cutting-edge telescopes and technology
- Opportunities for global research collaboration

The challenges

- Long study (PhD) required for permanent posts
- Positions are limited and highly competitive
- Occasional night observation shifts

9 Real-life journeys

Annapurni Subramaniam

Director, Indian Institute of Astrophysics, Bengaluru

Annapurni Subramaniam studied at Calicut University, earned her PhD at IIA, and now directs the same institute. She is known for her work on star clusters and galaxies.

Wikipedia · https://en.wikipedia.org/wiki/Annapurni_Subramaniam

Jayant Narlikar

Astrophysicist, Founder-Director of IUCAA (1938-2025)

Jayant Narlikar was a world-renowned astrophysicist who founded IUCAA in Pune and brought science to the public. His books and writings continue to inspire generations.

Wikipedia · https://en.wikipedia.org/wiki/Jayant_Narlikar

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/>
2. Indian Institute of Astrophysics — <https://www.iiap.res.in>
3. IUCAA, Pune — <https://www.iucaa.in>
4. JEST Examination — <https://www.jest.org.in>



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