



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

गणितज्ञ

Mathematicians study numbers, structures and patterns in depth. They use this knowledge to build new theories and to solve real-world problems in business, engineering, finance, healthcare and data science.



Scan for everything on this career

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

career.gsssjethantri.in/#/career/mathematician

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

www.gsssjethantri.in • career.gsssjethantri.in



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

Mathematicians study numbers, structures and patterns in depth. They use this knowledge to build new theories and to solve real-world problems in business, engineering, finance, healthcare and data science.

2 At a glance

Minimum qualification	B.Sc → M.Sc → PhD (Mathematics)
Selection exam	CSIR-NET, GATE, ISI admission
Work mode	Universities, research centres, industry
Starting salary	₹45,000–65,000/month

3 What you need

INTERESTS

- Deep interest in mathematics
- Enjoy solving problems independently
- Enjoy working with numbers and charts

ABILITIES

- Abstract and logical thinking
- Analytical reasoning
- Concentration and patience

KEY SKILLS

- Mathematical modelling
- Statistics and data analysis
- Problem-solving
- Building proofs and arguments
- Programming (Python/R)
- Research and writing

4 How to get there

- 1 Complete 10+2 in Science (Physics, Chemistry, Maths).
- 2 Earn a B.Sc in Mathematics.
- 3 Do an M.Sc in Mathematics or a related field.
- 4 Pursue a PhD for research or teaching.
- 5 Sit entrance tests for institutes like ISI and CMI.
- 6 Also explore openings in finance, data science and analytics.

MAIN EXAMS

- CSIR-UGC NET
- ISI admission test
- GATE (Mathematics)
- IIT JAM (M.Sc admission)

5 Where to study

GOVERNMENT INSTITUTES

- University of Rajasthan — Jaipur, Rajasthan (<https://www.uniraj.ac.in>)
- IIT Jodhpur — Jodhpur, Rajasthan (<https://www.iitj.ac.in>)
- Central University of Rajasthan — Ajmer, Rajasthan (<https://www.curaj.ac.in>)
- Indian Statistical Institute (ISI) — Kolkata (<https://www.isical.ac.in>)
- Chennai Mathematical Institute (CMI) — Chennai (<https://www.cmi.ac.in>)
- IIT Kanpur — Kanpur (<https://www.iitk.ac.in>)

PRIVATE INSTITUTES

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

ONLINE

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

FEES

Course fees range roughly from ₹5,000 to ₹2,00,000. Institutes like ISI and CMI give stipends to talented students. (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

Universities, colleges, government and private research centres, financial institutions, IT and data-science companies.

WORK CULTURE

Mainly a desk job. Usually 5-6 days a week, 8-9 hours a day, varying by organisation. Part-time and contract roles are also available.

WHO HIRES

- | | |
|------------------------------------|--------------------------------------|
| • Universities and colleges | • Indian Statistical Institute (ISI) |
| • Research institutes (TIFR, IISc) | • Banks and financial institutions |
| • IT and data-science companies | • Government statistical services |

DEMAND (2026)

Demand for mathematicians is rising fast in data science, artificial intelligence, finance and cryptography. Strong mathematics opens good opportunities in both teaching and research.

7 Career growth

- 1 Intern / Research Assistant
- 2 Mathematician
- 3 Senior Mathematician / Professor

4 Head of Department / Director

EARNINGS

Starting	₹45,000–65,000/माह
Mid level	₹80,000–1,10,000/माह
Senior level	₹1,60,000+/माह

Teaching and research follow government pay scales, while finance and the data industry can pay more. Figures are indicative.

8 The good parts · The challenges

The good parts

- Diverse careers from research to industry
- Rapidly growing demand in data science and AI
- Largely independent, intellectually rich work

The challenges

- Long study (PhD) required for deep research
- Abstract work does not suit everyone
- Permanent academic posts are competitive

9 Real-life journeys

Neena Gupta

Mathematician, Indian Statistical Institute, Kolkata; Ramanujan Prize Laureate

Neena Gupta solved the famous 'Zariski cancellation' problem in algebraic geometry. Winner of the 2021 Ramanujan Prize for young mathematicians and the 2024 Infosys Prize, she is an inspiring mathematician based in Kolkata.

Wikipedia · [https://en.wikipedia.org/wiki/Neena_Gupta_\(mathematician\)](https://en.wikipedia.org/wiki/Neena_Gupta_(mathematician))

Manjul Bhargava

Mathematician, Princeton University; Fields Medal 2014 Laureate

Of Indian origin, Manjul Bhargava is a world-renowned number theorist. In 2014 he received the Fields Medal, considered the highest honour in mathematics; he is also deeply connected to Indian music and culture.

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

10 Sources & further reading

1. Rajasthan Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/>
2. Indian Statistical Institute — <https://www.isical.ac.in>
3. Chennai Mathematical Institute — <https://www.cmi.ac.in>
4. CSIR-UGC NET — <https://csirnet.nta.ac.in>



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

career.gssjethantri.in