

GOWRIPRAKASH M

Physics Student at IISER Tirupati

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Summary

An undergraduate Physics student broadly interested in theoretical physics and mathematics. Open to contributing to any problem or project that is intellectually engaging.

Education

BS-MS in Physics, IISER Tirupati	2023–Present
Current CGPA: 7.4	
HSC (Class XII), Tamil Nadu State Board	2022
Percentage: 89.6%	
SSLC (Class X), Tamil Nadu State Board	2020
Percentage: 95.8%	

Experience

Course Completion: From the Big Bang to Dark Energy	Summer 2025
<i>The University of Tokyo, via Coursera</i>	

- Gained knowledge of key breakthroughs in particle physics and astronomy, including the Higgs boson.
- Studied methods used to probe the early universe and make cosmological predictions.

Online Space Internship	Summer 2024
<i>Agnirva</i>	

- Completed structured modules on Astrophysics and Space Technology, gaining foundational knowledge.
- Answered module assessments to reinforce understanding and earned certification upon completion.

Undergraduate Physics Lab Work	At IISER Tirupati
<i>Department of Physics</i>	

- Conducted 27+ experiments across mechanics, electromagnetism, optics, and quantum physics.
- Gained hands-on experience with lab equipment and data analysis tools (Origin, Python).
- Applied error analysis and uncertainty quantification in structured lab reports.

Skills

Programming & Software: Python (basic), Origin (graphing & data analysis)

Computational: Numerical methods, data fitting, and visualization

Relevant Coursework

**In Progress*

Classical Mechanics I • Classical Mechanics II • Optics* • Condensed Matter Physics I* • Quantum Mechanics I • Quantum Mechanics II* • Electrodynamics I • Statistical Mechanics I • Statistical Mechanics II* • Mathematical Methods in physics I

Groups & Rings • Linear Algebra • Measure theory & Integration* • Riemannian geometry* • Introduction to real analysis • Probability & Statistics

Extracurricular Activities

- Core Member of the design team of *prakriti*, the Conservation Club at IISERT.
- Carrom board & Badminton.

Languages

- Tamil (Native Proficiency)
- English (Professional Proficiency)
- Hindi (Intermediate Proficiency)