

# 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

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

## Experience

<b>Course Completion: From the Big Bang to Dark Energy</b> <i>The University of Tokyo, via Coursera</i>	<b>Summer 2025</b>
<ul style="list-style-type: none"><li>– Gained knowledge of key breakthroughs in particle physics and astronomy, including the Higgs boson.</li><li>– Studied methods used to probe the early universe and make cosmological predictions.</li></ul>	
<b>Online Space Internship</b> <i>Agnirva</i>	<b>Summer 2024</b>
<ul style="list-style-type: none"><li>– Completed structured modules on Astrophysics and Space Technology, gaining foundational knowledge.</li><li>– Answered module assessments to reinforce understanding and earned certification upon completion.</li></ul>	
<b>Undergraduate Physics Lab Work</b> <i>Department of Physics</i>	<b>At IISER Tirupati</b>
<ul style="list-style-type: none"><li>– Conducted 27+ experiments across mechanics, electromagnetism, optics, and quantum physics.</li><li>– Gained hands-on experience with lab equipment and data analysis tools (Origin, Python).</li><li>– Applied error analysis and uncertainty quantification in structured lab reports.</li></ul>	

## Skills

<b>Programming &amp; Software:</b>	Python (basic), Origin (graphing & data analysis)
<b>Computational:</b>	Numerical methods, data fitting, and visualization

## Relevant Coursework

*\*In Progress*

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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

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

## Languages

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