



## Summer School on

# PHYSICS DRIVEN FUTURE TRENDS & TECHNOLOGIES:

SPACE TECHNOLOGY    QUANTUM TECHNOLOGY

COMPUTATIONAL ASTROPHYSICS & SEMICONDUCTOR TECHNOLOGY

Organised by  
Department of Physics, MIT World Peace University (MIT-WPU), Pune

### Who Can Attend :

11<sup>th</sup> and 12<sup>th</sup> Std. (Science) Students, Undergraduate (B.Sc./B.Tech) Students, School Teachers (8<sup>th</sup> – 12<sup>th</sup> Std.), Professionals from relevant industries.

Duration : 5 Days

From 15<sup>th</sup> June to  
19<sup>th</sup> June 2026

### Fees

₹ 500/- per participant.

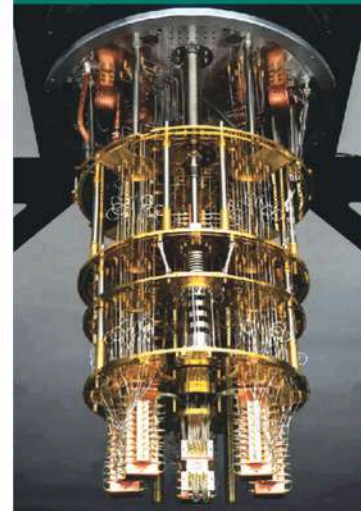
Registration fee waiver is available to few candidates on request.

### About the Program

This Summer School is designed to provide a comprehensive blend of theoretical knowledge and hands-on training in Astronomy, Space Technology, Quantum Technology and Computational Physics. Participants will gain exposure to cutting-edge experimental setups, observational techniques, and computational tools used in modern physics research.

### Objectives

- Develop computational skills using Python for physics and astronomy
- Provide hands-on exposure to basic and advanced physics experiments
- Introduce modern technologies in space science and communication
- Encourage research-oriented thinking and innovation
- Prepare students for careers in academia, space research, and industry



## Why attend

1. Gain hands-on exposure to cutting-edge technologies in Space Science, Quantum Technology, Computational Astrophysics, and Semiconductor Technology
2. Experience real-world experimental setups including QKD, Holography, Observatory, Ground Station, and HAM Radio systems
3. Develop practical skills in Python programming for scientific computing
4. Participate in astronomy observations and space communication activities
5. Opportunity to earn a Summer Internship at the Department of Physics, MIT-WPU based on performance
6. Flexible participation through both online and offline hybrid mode options



## Facilities Available

- Quantum Key Distribution (QKD) Setup
- Holography Experimental Setup
- Observatory for Astronomical Observations
- Ground Station for Satellite Communication
- HAM Radio Station
- Advanced Electrical Measurement Set up
- Advanced Physics & Photonics Laboratories
- Computer Laboratory & Workstation

## Learning Outcomes

- Proficiency in Python for Scientific Computing
- Understanding of Experimental Physics and Quantum Technologies
- Knowledge of Space Communication Systems
- Hands-on Experience with Real Physics Instrumentation
- Exposure to Observational Astronomy Techniques
- Introduction to Interdisciplinary Applications

### Internship Opportunity



Selected participants based on performance will be offered a Summer Internship at the Department of Physics, MIT-WPU.

### Certification



Participants will receive a Certificate upon successful completion of the program.

### Prizes



Participants can win prizes in various activities and competitions during the school

### Seats



Limited seats to ensure intensive hands-on training.

## Contact Details



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Scan to Register

