



Dr. Vishwanath Karad

**MIT WORLD PEACE  
UNIVERSITY** | PUNE

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

Since 1983

WHERE  
SCIENTIFIC CURIOSITY  
BUILDS TECHNOLOGY,  
RESEARCH AND DISCOVERY



Image Source: Argabhatta Observatory at MIT-WPU

**ADMISSIONS  
OPEN 2026**

DEPARTMENT OF PHYSICS

# School of Science and Environmental Studies

The School of Science is renowned for its strong focus on research and interdisciplinary education. With departments of Physics, Chemistry, Mathematics and Statistics, Biosciences and Technology, and Environmental Studies, the school fosters collaboration across disciplines, allowing students to explore diverse scientific fields. The Career Development Cell offers specialized training, helping students build essential skills for success in both academia and industry. Additionally, the school maintains strong collaborations with leading research institutes and industries, giving students unique opportunities for internships, hands-on experience, and exposure to the latest advancements in science. Innovation and Entrepreneurship support provided through Technology Business Incubation. This dynamic environment prepares graduates to become leaders in scientific innovation and problem-solving.

## Department of Physics

The Department of Physics at MIT-WPU is known for strong faculty expertise, active research, and hands-on learning. Faculty members hold PhD degrees with postdoctoral experience from leading institutions such as IITs, RRCAT, BHU and Max Planck Institutes. They have strong research credentials with high citation impact and bring exposure to state-of-the-art experimental facilities and infrastructure into teaching and mentoring.

Our laboratories are well equipped for experiments in photonics, computational physics, semiconductor device design, quantum technologies and astronomy. Facilities for astronomy and astrophysics include optical observatory and radio ground station which can receive images of distant celestial objects and signals from the satellites. Students engage in research projects, internships, visit and training with national research labs and industries, ensuring a strong focus on experiential learning and career readiness.

### Key Highlights

- Strong blend of core physics and advanced technology courses (**Photonics, AI-ML, Quantum Computing, Semiconductor Device Design** etc.).
- Expert guest talks, seminars and workshops from research institutes and industries like **IISERs, IUCAA, IIT, TIFR, QNu labs, Sahajanand LASER** etc.
- Research collaboration and student internship with various research institutes which include **NCL, PRL, SPPU, IISER Bhopal, TIFR Mumbai, NCRA, C-MET Pune, DIAT, HEMRL**.
- Industry collaboration and student internship with **Varroc Engg. Pvt. Ltd., Lumax industries Pvt. Ltd., Opmobility, Tata Consultancy Services, DContour Pvt. Ltd., Millman Thin Films systems Pvt. Ltd, UNO Minda**
- MoU with industries and research organisations (**DIAT, SPPU, JVP, QNu labs, Meerkat**)
- Competitive exam preparation with specialized coaching for **NET, GATE, JAM** etc.
- Active student engagement through the **Cosmos Astronomy Club** and **Apogee Podcast Magazine Club**, where students organize events, discussions, and work on projects.
- Students' involvement in research projects leading to publications in internationally reputed journals.
- Biannual **International Conference on Current Trends in Physics and Photonics (ICCTPP)**.
- Last 4 years placement of students **more than 60%** in various industries and national research labs.

# Programmes Offered

<b>UNDER GRADUATE PROGRAMME</b>	<b>B.Sc. Physics (Hons.)</b> Specialization Tracks: Advanced Computational Techniques, Astrophysics, Laser Technology and Theoretical Physics <i>*Note: As per NEP 2020, students can exit the programme upon successful completion of the 3rd year (with a regular degree).</i>	Duration  <b>4 Years*</b>	Fee Per Annum  <b>₹ 85,000</b>
<b>POST GRADUATE PROGRAMME</b>	<b>M.Sc. Physics</b> Specialization Tracks: Photonics, Astronomy and Astrophysics, Semiconductor Device and Design and Computational Physics	Duration  <b>2 Years</b>	Fee Per Annum  <b>₹1,10,000</b>
<b>PH.D PROGRAMME</b>	<b>Ph.D. in Physics</b> Fellowship offered. For more details visit the official website of MIT-WPU <a href="http://mitwpu.edu.in">mitwpu.edu.in</a>		

## Courses offered in specialization tracks

### B.Sc. Physics (Hons.)

Computational Techniques	Astrophysics	Laser Technology	Theoretical Physics
Internet of Things	Basics of Astronomy and Astrophysics	Laser Physics	Advanced Optics
Computer Graphics	Observational Astrophysics	Photonics	Relativistic Mechanics
Blockchain technology	Radiative Processes, Fluids and Plasmas	Laser Manufacturing	Advanced Quantum Mechanics
Data Analytics	Solar and Stellar Physics	Laser Applications	Advanced Mathematical Physics

This degree program combines the foundational principles of Physics with cutting-edge computational tools, offering courses in **GPU and Parallel Programming, Artificial Intelligence, Machine Learning, Quantum Computing, and Numerical Methods in Physics and Advanced Computational Physics**. These specialized courses equip students with the skills to tackle some of the most complex problems in both research and industry.

### M.Sc. Physics

Photonics	Astrophysics	Computational Physics	Semiconductor Devices and Design
Optics	Introduction to Astrophysics and Astronomy	Introduction to Computational Physics	Fundamentals of Semiconductor Devices
Opto electronics	Stellar and Galactic Physics	Computational Modelling in Physics	Device fabrication and characterization
Laser Physics	General Theory of relativity and Cosmology	AI & ML in Physics	Semiconductor Device and Process Simulation
Bio photonics and Holography	Observational Astronomy and Techniques	Quantum information and Computing	Advanced semiconductor devices

This degree program integrates advanced theoretical foundations of Physics with industry- driven specializations, aligning closely with **India's National Quantum Mission and Semiconductor Mission**. The curriculum emphasizes cutting-edge domains such as **Artificial Intelligence, Machine Learning, and Quantum Information Science**, while also providing hands-on training in **CAD tools, advanced photonics, and semiconductor device simulation**. By combining rigorous academic training with industry-relevant skills, the program prepares graduates to contribute to next-generation technologies in quantum systems, semiconductor design, and computational modeling, making them highly competitive in both research and industrial sectors.

# Eligibility & Selection Process



Programme	Eligibility Criteria	Selection Process
<b>B.Sc. Physics (Hons.)</b> <b>Specialization Tracks:</b> <ul style="list-style-type: none"> <li>• Computational Techniques</li> <li>• Astrophysics</li> <li>• Laser Technology</li> <li>• Theoretical Physics</li> </ul>	Minimum 50% aggregate marks in Class 10+2/ HSC or its equivalent examination in science stream with Physics as a regular subject (Minimum 45% aggregate marks for candidates belonging to the Reserved Category from Maharashtra State). OR Minimum 60% aggregate marks in any 3 years Engineering Diploma from State Government approved Institution/ board	Admission will be based on the Personal Interaction (PI) score, conducted by MIT-WPU as per the prescribed schedule
<b>M.Sc. Physics</b> <b>Specialization Tracks:</b> <ul style="list-style-type: none"> <li>• Photonics</li> <li>• Astrophysics</li> <li>• Semiconductor Device and Design</li> <li>• Computational Physics</li> </ul>	Minimum 50% aggregate marks in 3/4-year graduation degree in B.Sc. (Physics/Applied Physics/General Science/ Electronics) or B.E./ B.Tech. Candidates with degrees other than B.Sc. Physics must have studied Physics as a regular subject during graduation from UGC-approved institution/university (Minimum 45% aggregate marks for candidates belonging to the Reserved Category from Maharashtra State).	Admission will be based on the Personal Interaction (PI) score, conducted by MIT-WPU as per the prescribed schedule

Note: MIT-WPU retains the right to make changes to any published schedule for the selection process.

## Scholarships

MIT-WPU offers financial assistance and scholarships to the meritorious students based on their academic performance in the National level/State Level entrance exams / Entrance Examination conducted by MIT-WPU (MIT-WPU CBT Score) for the academic year 2026-27.

The categories of Merit Scholarships are as below\*:

1. **Dr. Vishwanath Karad Merit Scholarship**
2. **MIT-WPU Merit Scholarship-I**
3. **MIT-WPU Merit Scholarship-II**

### \*Terms and conditions:

1. Scholarships are granted on a First Come First Serve basis.
2. Scholarships are awarded as fee adjustments.
3. To maintain the scholarship throughout the programme, students must maintain a minimum academic score of 8 CGPA across all semesters, attendance of at least 80%, and a clean disciplinary record.



Scan QR Code for More Information

# Placements

Your Talent.  
Our Network.



Highest Package

**₹10.2 LPA**

Average Package

**₹5.8 LPA**

The Department of Physics at MIT-WPU, Pune is consistently able to place more than 60 % of MSc Physics students in each year. Our MSc Physics students with specializations in Photonics, Semiconductors and Astro Physics are getting placement and internship opportunities in various private companies and national research laboratories such as Varroc Engineering Pvt. Ltd., Lumax Industries Pvt. Ltd., Opmobility, Tata Consultancy Services (TCS), DContour Lite Tech Pvt Ltd., Milman Thin Film Systems Pvt. Ltd. , CMET (Pune), TIFR (Mumbai), NCRA (Pune) etc.

## Our Top Recruiters



& many more...

## Our students pursuing Ph.D. with full scholarship:



Mr. Amit Deokar

Macquarie University,  
Australia



Ms. Saniya Yadgeer

University of Texas at  
Arlington, U.S.

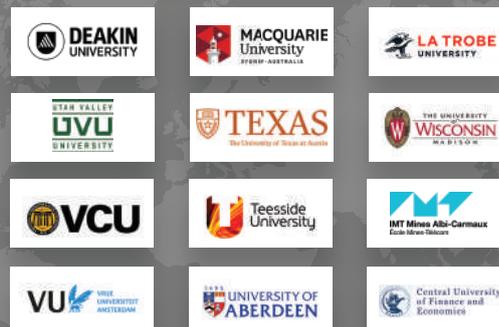


Ms. Ritika Singh

University of Ferrara,  
Italy

# International University Collabs

MIT-WPU continues to foster, strengthen, and sustain global relationships. We extend intercultural networks for our students and strive towards global leadership. The initiatives include student and faculty exchange programmes, summer and winter programmes, research associations, and international immersions. We also offer semester-abroad programmes, project mentorship, extra credit programmes, and enriching intercultural activities. MIT-WPU has built partnerships with over 40 universities, including Deakin University, Macquarie University, Monash University, University of Vermont, Eastern Michigan University, and Virginia Commonwealth University, among others.



# LIFE @ MIT-WPU



100+ student clubs at MIT-WPU stand as a vibrant community within the academic hub. The clubs give students an extraordinary opportunity to engage in a wide array of activities, events and competitions for personal and professional growth.

# Hostel

MIT-WPU offers fully equipped, cutting-edge hostel facilities to students, both on and off-campus, ensuring a comfortable and secure living environment. Students can choose between twin-sharing and triple-sharing rooms, all of which come with unlimited high-speed Wi-Fi and housekeeping services. Our hostels are overseen by full-time wardens, equipped with CCTV monitoring, and feature biometric-enabled entrances to prioritize safety.

- Live food counters with fresh, hygienic, nutritious meals in multiple cuisines.
- In-house laundry facilities for student convenience.
- On-call doctors and hospital tie-ups for emergencies.
- Recreation zones with dance/ yoga rooms, gym, gaming area, hangout zones, and reading room.
- Dedicated transport between hostels and campus.
- Modern facilities with housekeeping and high-speed internet.
- 24x7 campus security with biometric entrances and round-the-clock wardens.



# Degree++ Courses

## LEARNING BEYOND CLASSROOM

*A carefully curated set of experiential learning courses designed to foster the holistic development of our students.*

### FIRST YEAR

#### → Social Leadership Development Programme (SLDP)

*Necessary exposure and opportunities to become a change leader.*

#### → Co-Creation

*Ability to work in multi-disciplinary teams on real world complex problems.*

### SECOND YEAR

#### → Research, Innovation, Design, and Entrepreneurship (R.I.D.E)

*Pathway to innovation and entrepreneurship*

#### → Rural Immersion

*Understand the problems of Bharat and employ technical skills to benefit society.*

#### → Life Transformation Center

*Journey of reflection and self-discovery*

### THIRD YEAR

#### → National Immersion Programme

*Exposure to and appreciation of academic, cultural and regional diversity*

#### → Democracy, Leadership Governance & Public Policy

*Contribute to society using critical thinking and by embracing different viewpoints*

*\* Terms and conditions apply*

# About MIT-WPU

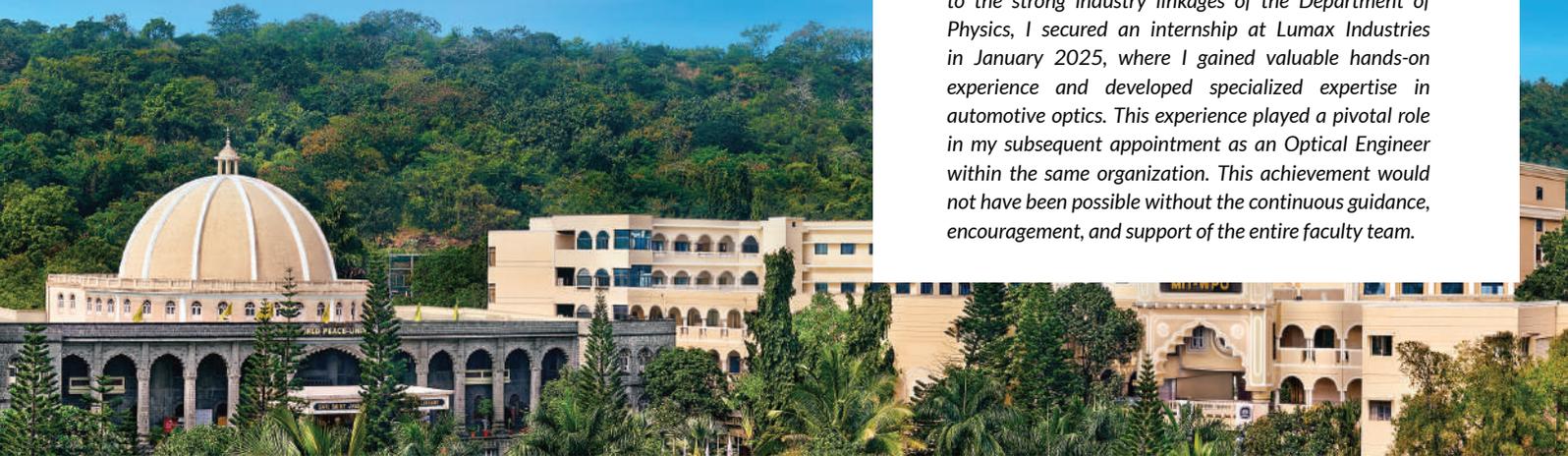
With a rich legacy of 43+ years in fostering world-class academic excellence and over 100,000 alumni across the globe, MIT-WPU is one of the premier centres of higher learning in India. Today over 25,000 students from diverse backgrounds across the world are experiencing a 'life-transforming curriculum' across a multitude of professional academic programmes. Currently, students are pursuing education in over 150 programmes at MIT World Peace University. Located in the picturesque city of Pune, the MIT-WPU campus is surrounded by key civic infrastructure and sprawls over 65 acres of lush green campus.



## SAMPADA SALUNKHE

Optical Engineer, Lumax Industries, R&D  
Former M.Sc. Physics student

As an M.Sc. Physics alumna specializing in Semiconductor Device and Design at MIT-WPU, I benefited from a program that seamlessly integrates research exposure with strong industrial opportunities. The department is supported by exceptionally knowledgeable and approachable faculty members who are not only experts in their respective domains but also committed mentors focused on each student's holistic development. Owing to the strong industry linkages of the Department of Physics, I secured an internship at Lumax Industries in January 2025, where I gained valuable hands-on experience and developed specialized expertise in automotive optics. This experience played a pivotal role in my subsequent appointment as an Optical Engineer within the same organization. This achievement would not have been possible without the continuous guidance, encouragement, and support of the entire faculty team.



**Maharashtra, Goa:**  
8007042359,  
7030963287

**Rajasthan:**  
7030963285

**West Bengal, North East:**  
9075038051

**Bihar:**  
7030963289

**Delhi, NCR, Haryana,  
Jammu & Kashmir:**  
7774023698

**Uttarakhand, Himachal  
Pradesh:**  
8380023757

**Uttar Pradesh:**  
8007042264,  
9075038047

**Chhattisgarh:**  
8605007435

**Punjab:**  
9607132371

**Jharkhand:**  
7030963288

**Karnataka, Kerala :**  
8799949590

**Andhra Pradesh, Tamil  
Nadu, Telangana,  
Puducherry:**  
9145002073

**Gujarat, Dadra and Nagar  
Haveli and Daman and Diu:**  
7720061620

**Madhya Pradesh:**  
9112228871



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