

**MIT-WPU**

॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

A Launchpad to Engineering  
Excellence

Postgraduate Diploma In

# Artificial Intelligence and Machine Learning Techniques



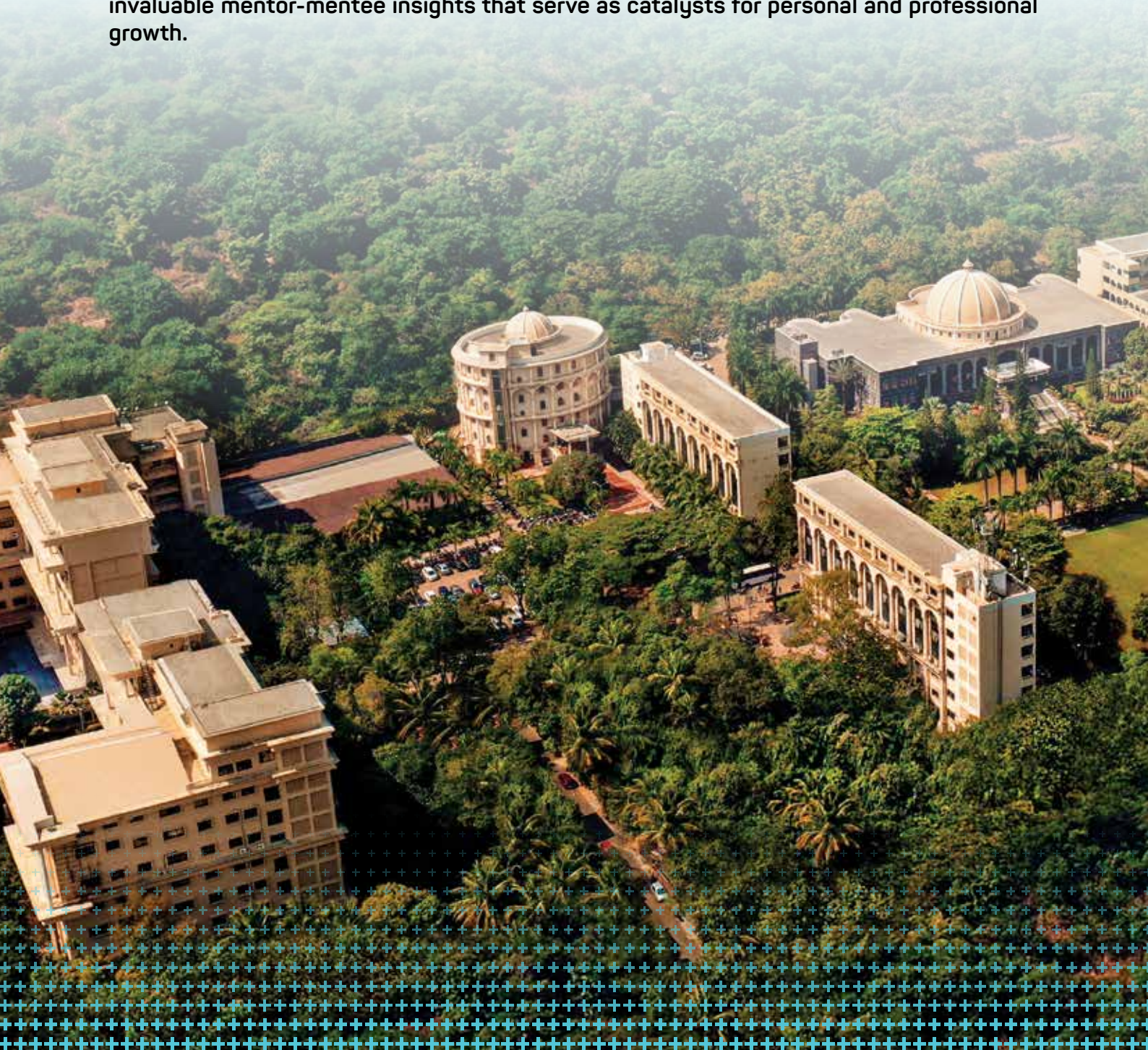
**ADMISSIONS  
2024**

[mitwpu.edu.in](http://mitwpu.edu.in)

# MIT World Peace University (MIT-WPU)

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MIT World Peace University (MIT-WPU) is a prestigious world-class institution for higher education in India, with a remarkable 40-year legacy dedicated to fostering excellence in academics. With a global alumni network comprising over 100,000 professionals, MIT-WPU has consistently delivered outstanding educational outcomes. The institution offers over 150 undergraduate and postgraduate programmes that are thoughtfully designed to strike a balance between theoretical foundations and practical application. The pedagogical approach prioritises experiential learning, empowering students to translate knowledge into real-world skills. This is facilitated through immersive internships and invaluable mentor-mentee insights that serve as catalysts for personal and professional growth.



# University Highlights

- ◆ **100,000+** Alumni Globally.
- ◆ **1600+** Companies visited the Campus.
- ◆ International Students from **30 countries.**
- ◆ Merit-Based Scholarship worth **Rs. 50 Cr.**
- ◆ Highest University Package: **Rs. 51.36 Lakhs CTC.**
- ◆ Outcome based learning aligned with **Bloom's taxonomy.**
- ◆ Experiential learning through **Rural, National & International**
- ◆ **Immersion** and **Co-creation Programmes.**
- ◆ Lateral learning through events like **RIDE** (Research, Innovation, Design, Entrepreneur-ship), **SLDP** (Social Leadership Development Programmes) & more.
- ◆ The curriculum taught by **International Academicians, Industry practitioners, and Alumni.**
- ◆ Practical and real-life experience with Industry sponsored **Capstone projects, Internships, & Seminars.**
- ◆ **Holistic development** through participation in Yoga, Patriotism, Peace, Agriculture & Spiritual programmes.

# Why PG Diploma Programme in Artificial Intelligence and Machine Learning Techniques at MIT-WPU?

One-year Artificial Intelligence and Machine Learning (AI&ML) techniques programme at MIT-WPU stands out for its curriculum designed by industry experts, prioritising hands-on learning. Through this curriculum enriched with capstone projects and numerous assignments, the programme places a strong emphasis on fostering brainstorming and problem-solving skills, thereby encouraging innovation throughout the learning journey.

Complementing the academic aspect, MIT-WPU provides internship and placement opportunities to students, ensuring they gain practical experience. This proactive approach is geared towards preparing students for successful careers in the dynamic field of Artificial Intelligence and Machine Learning. The industry-aligned design of this programme and the incorporation of practical experiences underscore the institution's commitment to producing graduates who are well-equipped for the challenges and opportunities in the field of AI & ML.



# Faculty of Engineering and Technology

The MIT-WPU Faculty of Engineering and Technology presents an exceptional educational environment, seamlessly blending practical knowledge with problem-based, experiential, and collaborative learning. The faculty members at MIT-WPU bring substantial expertise, and the institute takes pride in fostering strong industry-academia connections. This unique blend ensures that students not only receive robust theoretical knowledge but also gain significant industry exposure through various application-oriented methods.

The learning experience at MIT-WPU extends beyond traditional classrooms. The curriculum incorporates guest lectures, seminars, and workshops, as well as national and international tours to provide students with a comprehensive understanding of their field. Capstone projects play a pivotal role in the learning journey, emphasising critical thinking, problem-solving, and innovation. Moreover, the presence of Centres of Excellence, in collaboration with multiple MNCs, further enhances students' readiness for successful careers. These collaborations offer students valuable insights into industry trends and expectations, aligning their education with the practical demands of the professional world. The institution's commitment to holistic and industry-relevant education positions its students for success in their future careers.





# Message for Future Ready Technocrats and Entrepreneurs

## Dean's Message

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Dear students and parents,

There is a huge demand for industry-ready manpower that is conversant with the latest technologies adopted by the industry. Therefore, it is necessary, as academicians, that we contribute to the growth of our nation by grooming professionals, who are conversant with the current advances and practices in the industry.

Building a strong industry-academia connection is a priority for the Faculty of Engineering and Technology. My team of faculty members is continuously revising the engineering curriculum in consultation with the top industry experts. Industry readiness at the global level and research and innovation are our key focus areas.

I firmly believe that our nation needs research-oriented education that pushes our young minds toward innovation that can provide solutions to real-life problems. This will truly make the dream of Atma Nirbhar Bharat a reality.

As the Dean of the WPU School of Engineering and Technology, providing infrastructural support and encouragement to my team of faculty members, along with their bright young engineering students, is a priority for me. It gives me immense pleasure to inform you that this team is currently working on several innovative, interdisciplinary projects across various domains.

I am confident that the Faculty of Engineering and Technology at MIT-WPU will produce global professionals, leaders, and lifelong learners with holistic personalities who will contribute to the well-being of mankind.

**Dr. Dinesh Seth**

Dean,  
WPU School of Engineering  
& Technology





# Programme Highlights

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- 1** Highly flexible and adaptive model of blended learning.
- 2** The curriculum was developed in collaboration with industry experts from leading organisations like Texas Instruments, NVIDIA, ATMEL, Tata Elxsi, Agiliad, DRDO, CDAC, and others.
- 3** Emphasis on hands-on experience using in-demand AI and ML technologies to address real-world industry challenges.
- 4** Project-based learning approach to enhance problem-solving skills.
- 5** Collaboration on projects with major IT companies including Infosys, TCS, Microsoft, Amdocs, Accenture, Cognizant, ThoughtWorks, and others.
- 6** Dedicated Centre for Industry-Academia Partnerships (CIAP) supports students in securing jobs through collaboration with top employers. It provides structured assessments, training, and grooming activities to enhance employability.

## Artificial Intelligence and Machine Learning Laboratory

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The Department of Electronics and Electrical Engineering boasts an advanced Artificial Intelligence and Machine Learning Laboratory, strategically designed to foster and encourage student research initiatives. This state-of-the-art facility is equipped with cutting-edge technologies, including AI, NVIDIA, LIDAR, RoboEX, and Dell Poweredge R440. These resources empower students to model, simulate, and optimise algorithms for various applications, such as video surveillance and self-driving cars.

Notably, the laboratory serves as an immersive and interactive space for the development of Internet of Things (IoT) applications. With a focus on hands-on learning, the facility provides students with access to contemporary hardware and software platforms, facilitating the creation of innovative projects. This environment ensures that students receive practical exposure to the latest advancements in AI, ML, and IoT, preparing them for the dynamic challenges of the tech industry.



# Industry Associations

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- ◆ TECH MAHINDRA Makers Lab
- ◆ Canspirit.ai
- ◆ Analytics Domain
- ◆ In-Med Prognostics
- ◆ Connecticut
- ◆ Applied AI Consulting
- ◆ Prescient Technologies
- ◆ Cynapto Technologies
- ◆ PluralTechnologies





# AI & ML Research Projects

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## Funded Projects

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### Research Focus:

- ◆ Vineyard Yield Prediction & Quality Assessment using LIDAR (KIRAN Scheme, DST).
- ◆ Multisensory Smart Assistive Technology for the Blind (DST, Govt. of India).
- ◆ TW3 RUS Modification for Bone Age Assessment (DST, Govt. of India).
- ◆ AI based detection and identification of retail products for unmanned vending machines (Shalaka Connected Device Ltd.)

### Applied AI & ML:

- ◆ 20+ ongoing projects in AI & ML, spanning Healthcare and Agriculture.
- ◆ Utilizing Computer Vision, NLP, and IoT, with a significant cybersecurity focus.

### Government Support:

- ◆ Sponsored by prestigious bodies like the Department of Science and Technology (DST).

### Innovation Impact:

- ◆ Dedicated to impactful research addressing real-world challenges.
- ◆ Contributing to advancements in AI & ML technologies.

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The MITWPU research group, in collaboration with Leading India, conducted the following impactful research projects:

### Image Generation with GANs:

- ◆ Exploration and implementation of Deep Convolutional Generative Adversarial Networks (GANs) for image generation.

### CNN for Image Classification:

- ◆ Research and development involving Convolutional Neural Networks (CNN) for image classification applications.

# Academic Programme



# PG Diploma In Artificial Intelligence and Machine Learning Techniques



**Duration - 1 year**



**Fees - ₹ 1,30,000/- PA**



## Modules Covered

- ◆ Machine Learning Algorithms
- ◆ Artificial Neural Networks
- ◆ Deep Learning
- ◆ Natural Language Processing
- ◆ Data Intelligence and Analytics
- ◆ Convolutional Neural Networks
- ◆ AI Computing Tools



## Career Opportunities

- ◆ Artificial Intelligence Engineers
- ◆ Blockchain Analysts
- ◆ Data Scientists
- ◆ AI Data Analysts
- ◆ Machine Learning Engineers
- ◆ Big Data Scientists

The PG Diploma in Artificial Intelligence and Machine Learning Techniques (PGAIML) programme at MIT-WPU is designed to provide students with a strong foundation in the principles and applications of AI and ML across various fields. Through hands-on learning, case studies, and industry-oriented assignments, students become proficient in a range of AI and ML topics. Students gain access to state-of-the-art labs where they get to work with cutting-edge tools and technologies. Students are also trained through interactive learning methods and collaborations with industry experts. Upon completion of the diploma programme, they can pursue a variety of careers in the related field.

# Internships & Placement

## Paving Pathways to Success

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The dedicated Placement Cell, known as the Centre for Industry-Academia Partnerships (CIAP) at MIT-WPU, opens doors to multiple career opportunities for graduates. With a consistent track record of high placements, the cell connects students with prestigious firms, providing career guidance and preparing them for the professional arena. Complementing this, the eight-week Summer Internship, from late April to mid-July, integrates classroom knowledge with hands-on experience. This mandatory programme propels students into professional ecosystems, providing practical insights crucial for their careers. MIT-WPU maintains robust connections with over 250 industries in India and abroad. Furthermore, it has established Memorandums of Understanding (MOUs) with various government organisations and foreign educational institutions. This extensive network proactively assists students in securing internships, pursuing campus placements, nurturing entrepreneurial endeavours, and advancing their higher education pursuits. Together, strategic placements and experiential learning define the institution's commitment to shaping well-rounded, industry-ready professionals.



# Top Recruiters



# Eligibility & Selection Criteria

- ◆ B.E., B.Tech., M.E., M.Tech. in any engineering branch with minimum 50% marks from UGC approved University or equivalent (45% marks in case of candidates of reserved class categories and Persons with Disability belonging to Maharashtra State only).

OR

- ◆ BCA / B. Sc / MCA / M.Sc. with minimum 50% marks from UGC approved University or equivalent (45% marks in case of candidates of reserved class categories and Persons with Disability belonging to Maharashtra State only) Candidate should have studied Mathematics / Electronics / Computer Science / Information Technology as one of the subjects at (10+2) level or at Graduate level examination.
- ◆ The selection process for the programme is based on MIT-WPU PI (Personal Interaction) 2024 score.

**\*Note:** MIT-WPU retains the right to make changes to any published schedule.







# Testimonials

## Here's What Our Students Have to Say



I'm delighted to be a student of the PGDAIML programme at MIT-WPU. My career shift from a predominantly technical background to the AIML world outside became a smooth sail, thanks to the interactive teaching methods adopted by the highly experienced faculty members. It was a great opportunity for me to advance my skills under their guidance. MIT-WPU helped me develop my personality as well.



**Yash Baviskar**

Being a student of the PGDAIML programme, I would highly recommend every data science enthusiast to study here as the programme has helped me a lot to gain knowledge about the field of data science, artificial intelligence, machine learning and its application in various fields. The professors have helped us a lot. I love the lush green campus and the extracurricular activities which make the academic year interesting for students.



**Pratik Thakkar**



The PGD AIML programme acquainted me with the various tools and techniques used in the field of AI ML. The teachers are very cooperative and conduct interactive lectures. The campus is also very beautiful and lush green.



**Hraday Dasadia**



KEEP BLEND



# Events @ MIT-WPU

## R.I.D.E. Igniting Innovation and Entrepreneurship

R.I.D.E. stands out as a unique educational initiative by MIT-WPU, fostering entrepreneurship beyond academics. This 5-day event, attracting over 10,000 students, showcases cutting-edge research, design thinking, and innovation across diverse domains. With 100+ startups and 50 venture capital experts, R.I.D.E. provides a real-world startup context, encouraging unconventional thinking and exposing participants to transformative dynamics and market trends.



## Bharatiya Chhatra Sansad Empowering Youth for Change

A brainchild of Shri. Rahul V. Karad and flagship initiative of MIT-WPU, Bharatiya Chhatra Sansad (BCS) is a nationally recognised initiative empowering youth in India's political landscape. Serving as a non-partisan platform, BCS engages young minds in debates, discussions, and addresses by distinguished personalities, fostering awareness of the socio-political landscape. Acknowledging the contributions of young leaders, sarpanches, and activists, BCS, with participation from 25,000 institutes nationwide, empowers youth to actively shape India's future in governance and administration.



## Rural Immersion Programme

The rural immersion programme of MIT-WPU provides students with a unique educational experience. Through village visits, students engage in hands-on projects such as optimising irrigation, water conservation, waste recycling, and solar power integration. This immersive learning develops critical thinking, problem-solving skills, and community awareness, fostering a profound understanding of rural dynamics and innovative solutions.



## Other MIT-WPU Events

- ◆ Design Xpo
- ◆ Aarohan
- ◆ Kala Mehfil
- ◆ Hackathon
- ◆ National Conference on Media and Journalism
- ◆ Abhivyakti
- ◆ TEXEPHYR
- ◆ Tesla
- ◆ Techogenesis
- ◆ RoboCon
- ◆ Science Expo
- ◆ World Parliament of Science, Religion and Philosophy
- ◆ Bharat Asmita National Awards
- ◆ National Women's Parliament
- ◆ International Symposium on Law and Peace
- ◆ Vidhi-Manthan
- ◆ Peace Marathon
- ◆ Sports Summit
- ◆ Social Leadership Development Programme (SLDP)
- ◆ And many more...

# MIT-WPU Student Clubs

MIT-WPU is a vibrant hub for student involvement, boasting over 100 clubs spanning cultural, social, sports, co-curricular, and NCC/NSS categories. Such student-led clubs provide students with a platform for active participation, connection-building, and leadership skills development.

- ◆ The Innovation Club is a hub for entrepreneurial and innovative events and workshops
- ◆ The Art and Photography Club brings together aspiring artists for creative expression
- ◆ The Sports Club, orchestrating spirited sporting events and activities
- ◆ The Cultural Club celebrates diversity and fosters cultural exchange
- ◆ Aatman- The sole Mental Health Club led by Psychology students, promoting well-being
- ◆ Team Dart- A motorsports team participating annually in the Rally Car Design Challenge (RCDC)

These clubs excel in national and international competitions, amplifying the dynamic MIT-WPU experience, nurturing leadership, and fostering holistic personal growth. Active participation in these diverse student clubs empowers students to optimise their time, enhance their skills, and contribute purposefully to the community.





CHALCHITRA



# Life @ MIT-WPU







# Peace Studies: Fostering Holistic Growth

Understanding the importance of inner and social peace and conflict management skills is crucial in today's world. MIT World Peace University has adopted UNESCO's core vision of 'Building Peace in the Minds of Young Men and Women' as its guiding ethos.

The university offers a mandatory course of peace studies that lays the foundation for spiritual peace and harmony. It explores new ideas and practices from various cultures to tackle the challenges of global peace and sustainable development. The university also plans to introduce an advanced postgraduate degree programme in Peacebuilding and Conflict Management that offers state-of-the-art learning opportunities to study traditional and contemporary pedagogies of peacebuilding and conflict management.

The main objective of this course is to prepare students to become agents of social change and genuine global citizens. It trains them in non-violent communication to promote peace and prevent violence in communities and workplaces. Furthermore, the peace studies module also acquaints students with diverse yoga practices that enrich their cognitive prowess and information base, refining critical thinking and enhancing their overall personality. This interdisciplinary course, developed with input from scholars and practitioners worldwide, helps students build knowledge of India's spiritual and cultural ethos. Additionally, the course covers essential conflict management knowledge and skills that are in high demand in today's corporations.



# Admission Process





Dr. Vishwanath Karad  
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