

॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

Designing Tomorrow's Healthcare
Solutions

M.Tech Medical Devices

*WPU School of Health
Sciences and Technology*



**ADMISSIONS
2024**

mitwpu.edu.in

MIT World Peace University (MIT-WPU)

MIT World Peace University (MIT-WPU) is a prestigious world-class institution for higher education in India, boasting 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 for placement.
- ◆ 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 is 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.



WPU School of Health Science and Technology

The School of Health Science and Technology at MIT-WPU offers students an enriching learning experience in a vibrant academic environment. With departments covering Pharmaceutical Science, Public Health, Clinical Science, and Wellness and Yogic Science, the school provides a range of undergraduate, postgraduate, and doctoral programmes, each designed to give students a comprehensive understanding of key concepts and issues in the fields of science and technology by blending theoretical and practical aspects. Emphasising hands-on learning through case studies, projects, and internships, the school ensures students are well-prepared for real-world challenges. The Faculty of Science and Health Science, integral to the school, enhances the academic environment. The school boasts extensive academic and research partnerships with various universities and pharmaceutical industries, providing students with valuable industry exposure. Moreover, short-term courses, training, seminars, and guest lectures specific to specialisations are offered, enabling students to acquire practical skills, knowledge, and insights into the latest industry trends and developments. The MIT-WPU School of Health Science and Technology offers holistic education that goes beyond textbooks, equipping students to excel in influential roles in pharmaceutical science, public health, clinical science, wellness and yogic science.

The Department of Pharmaceutical Sciences

The Department of Pharmaceutical Science at MIT-WPU consistently ranks among the top 100 pharmacy institutes in the country, as recognised by NIRF. Offering comprehensive programmes at the undergraduate, postgraduate, and doctoral levels, the department is committed to providing students with practical and industry-focused education. Aligned with PCI regulations and shaped by insights from industry experts, the curriculum emphasises modern and future-oriented technical knowledge, complemented by essential soft skills. The pedagogy fosters a proactive learning environment, encouraging self-learning, critical thinking, project-based learning, problem-solving, experiential training, and research. Every programme includes modules on peace studies and skill development as integral components. Students benefit from real-world exposure through internships, industry visits, and immersion programmes at local, national, and international locations, facilitating interaction with practising professionals and researchers. Equipped with advanced laboratories, the department is home to an Adverse Drug Reaction Monitoring Center approved by the Indian Pharmacopoeia Commission and PvPI. This centre facilitates research in drug development and pharmaceutical technology. Students actively participate in practical projects and internships at esteemed local hospitals such as Vishwaraj, Lokmanya, Sahyadri, Ruby Hall Clinic, Jahangir, and Unity Medicare, honing their clinical skills for a well-rounded education.



**MIT-WPU**
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**ANUSHKA**
Student ID Card



Programme Highlights:

1 Curriculum approved by Pharmacy Council of India

2 Industry-oriented Research Projects

3 Application-based learning pedagogy

4 Research opportunities to collaborate with Internationally acclaimed faculty

5 Attractive stipends for GPAT Qualified Students

6 Industrial Internships and Projects with top pharma MNCs

7 State of the art Laboratories and research facilities

8 Seed funding for student research projects and Start-ups

9 Dedicated Centre for Industry-Academia partnerships to support students through internships and job placements with world-class organisations

10 Guest lectures, seminars, and workshops by industry experts and leaders from multinational companies

11 Rural, National, and International Immersion programmes to sensitise students to ground-level realities and solve complex societal problems

12 More than 100 student-led clubs catering to varied interests, from technology to drama

13 Encouraging entrepreneurship in students through funding, mentoring, and network connection in MIT-WPU Pune Technology Business Incubator (TBI)

Dean's Message

Greetings,

Pharmaceutical professionals are an important part of the healthcare team helping to improve the health and well-being of the people. They help provide effective and affordable medicines. The sector was in the limelight during the COVID-19 pandemic and India was christened as "Pharmacy of the World" due to its ability to cater to the medicine and vaccine needs of the world. Technology and digitisation have created several new avenues for graduates with excellent career opportunities.

The Department of Pharmaceutical Science at MIT World Peace University, Pune, was established in 1997 as MAEER's Maharashtra Institute of Pharmacy (MIP) and later merged into MIT World Peace University in 2018. The Department has been ranked in the top 100 pharmacy institutes in India by NIRF, Govt. of India for the last four years. It has also been placed into the platinum category by the AICTE-CII Survey.

The Department of Pharmaceutical Science focuses on outcome-based education with clearly defined learning outcomes and graduate attributes. The pedagogy is aligned to meet the objectives with a focus on subject knowledge, project-based learning, design thinking, problem-solving, life skills, values, and ethics. The aim is to create lifelong learners to adapt to the fast-changing world where upskilling and reskilling are the norm rather than an exception. The department is closely working with the industry for internships, experiential training, and research. The rural, national, and international immersion programmes are designed to expose students to real-life problems, cross-cultural learning and wider exposure.

As said by Martin Luther King Jr "Intelligence plus character is the true goal of education," students are motivated to inculcate social and professional values and a sense of discipline and character. Peace studies and yoga are integral parts of the curriculum to make



**Education breeds
confidence.
Confidence breeds
hope.
Hope breeds peace.
- Confucius**





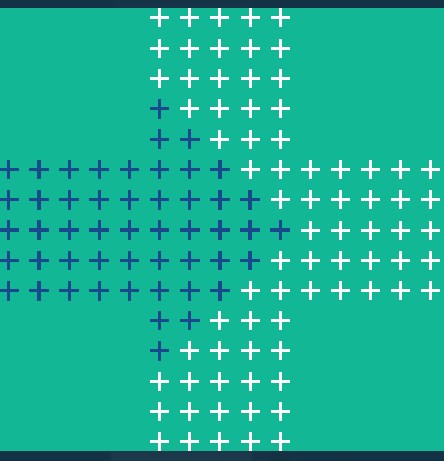
students physically and emotionally fit and mentally alert. Students are also involved in community service through activities such as health camps, patient counselling, blood donation and health check-ups.

The Department of Pharmaceutical Science provides a unique blend of excellence and commitment in a well-equipped campus with an ambience to nurture learning.

I join my faculty and staff colleagues to welcome you to the Department of Pharmaceutical Science and to be part of your journey to learn.

Dr. Neeraj Mahindroo

Dean,
Department of Pharmaceutical Science



Academic Partnerships: Making Learning Global



UNIVERSITY OF
WISCONSIN
PARKSIDE

 University of
Massachusetts
Lowell

Commitment to global education is showcased through strategic academic partnerships with renowned international universities. These programmes facilitate learning that transcends geographical boundaries, encouraging the exchange of diverse international disciplinary approaches. MIT-WPU continues to foster, strengthen, and sustain global relationships and extends inter-cultural networks for its students through student and faculty exchange programmes, summer and winter programmes, research associations, international immersions and semester abroad programmes, project mentorship, extra credit programmes, and enriching intercultural activities.

The School of Health Science and Technology has forged collaborations with esteemed international universities, including:



MIT-WPU Pune Technology Business Incubator (TBI)

The MIT-WPU Pune Technology Business Incubator (TBI) stands as the official innovation and entrepreneurship ecosystem affiliated with MIT-WPU. Established in 2016, TBI enjoys the backing of the Department of Science and Technology (DST), Government of India.

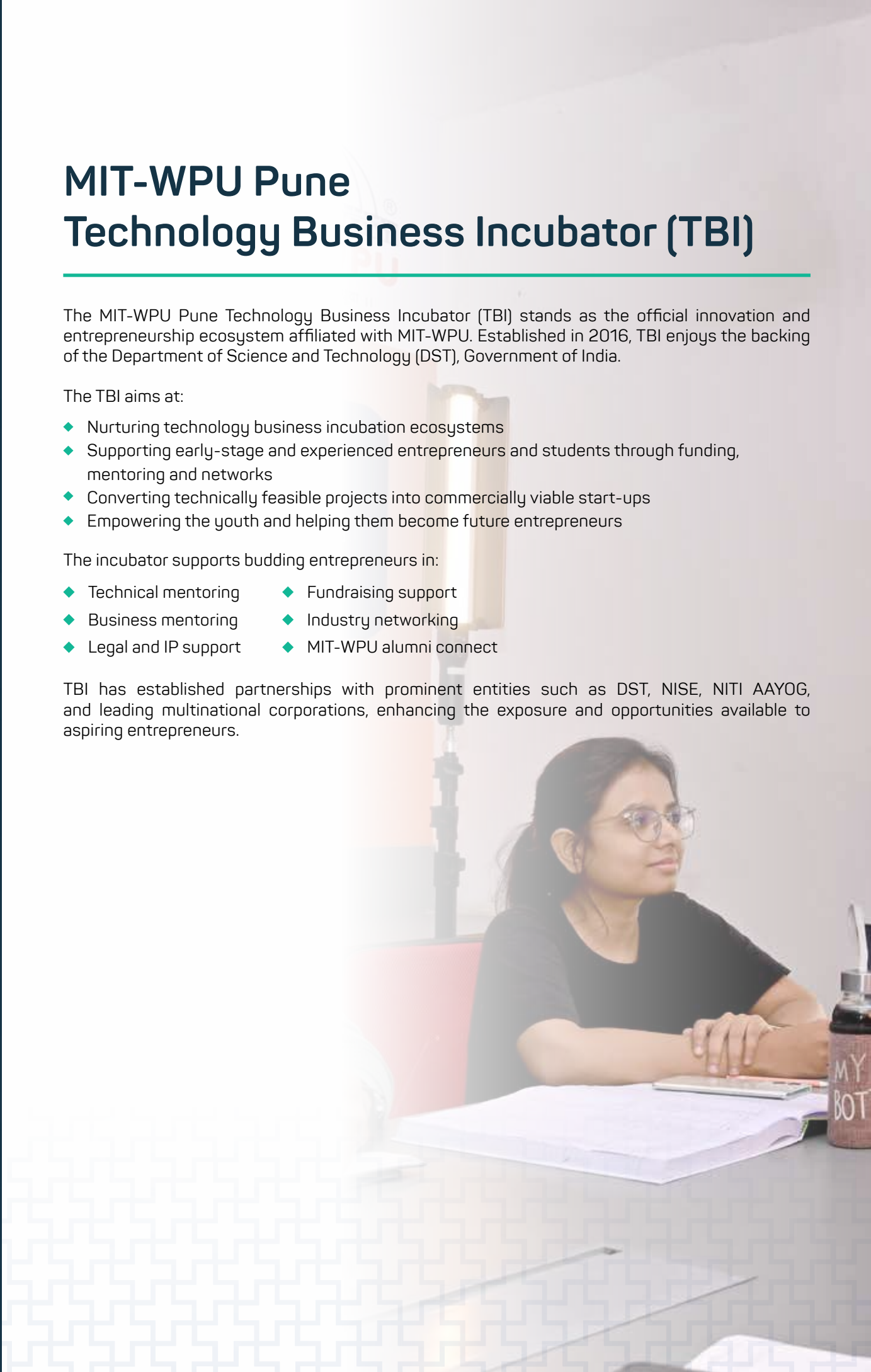
The TBI aims at:

- ◆ Nurturing technology business incubation ecosystems
- ◆ Supporting early-stage and experienced entrepreneurs and students through funding, mentoring and networks
- ◆ Converting technically feasible projects into commercially viable start-ups
- ◆ Empowering the youth and helping them become future entrepreneurs

The incubator supports budding entrepreneurs in:

- ◆ Technical mentoring
- ◆ Fundraising support
- ◆ Business mentoring
- ◆ Industry networking
- ◆ Legal and IP support
- ◆ MIT-WPU alumni connect

TBI has established partnerships with prominent entities such as DST, NISE, NITI AAYOG, and leading multinational corporations, enhancing the exposure and opportunities available to aspiring entrepreneurs.





26th Anniversary Celebrations
MIT WORLD PEACE UNIVERSITY
WISDOM. INTEGRITY. ACCESIBILITY. ENVIRONMENTAL.

MIT WPU
WPU





Programme Overview

Master of Technology (M. Tech) in Medical Devices

The Master of Technology (M. Tech) in Medical Devices at MIT-WPU is a two-year, full-time programme designed to foster an interdisciplinary and multitasking approach in candidates. Tailored for job placement in pharmaceutical industries and research organisations, this programme is led by expert senior faculty with domain expertise in the pharmaceutical industry and research areas. The programme offers an opportunity to delve into current research trends in the pharmaceutical sector and encourages need-based research in industry-related areas. It aims to cultivate an interdisciplinary and multitasking approach in students, providing versatile skills for diverse roles in pharmaceutical industries and research organisations. The programme features expert senior faculty offering extensive knowledge in pharmaceutical domains, ensuring high-quality mentorship. Graduates of the M. Tech in Medical Devices degree programme can explore diverse career opportunities in the fields of Pharmaceutical and Research & Development.

 Duration - 2 years

 Fees - ₹4,55,000/- PA

Highlights

Interdisciplinary Excellence:

Offers a well-rounded education, breaking traditional boundaries.

Industry Partnerships:

Collaborations with industry leaders such as Wipro - GE Healthcare, Philips Healthcare, Siemens Healthineers, Samsung, Johnson & Johnson, Medtronic, Baxter, Boston Scientific, Entrepreneur, and more offer real-world exposure and potential collaborations.

Specialisations:

Students can focus on Diagnostics, Medical Robotics, Wearable Devices, Assistive Devices, and Ergonomics.

Joint Delivery:

Various schools collaborate, enriching the curriculum and providing a comprehensive learning experience.

Career Prospects

- ◆ Consultant
- ◆ Medical Device Engineer
- ◆ Medical Science Liaison
- ◆ Product Development Engineer
- ◆ Researcher
- ◆ Sales and Business Development Expert



Eligibility

◆ Indian:

Minimum 50% aggregate score in 3 or 4-year graduation from UGC approved University or equivalent (at least 45% marks, in case of Reserved Class category candidate belonging to Maharashtra State only). Graduation has to be in B.Tech./B.E. in Biomedical, Biotechnology, Chemical, Computer Science, Electrical, Electronics and Communications, Instrumentation and Mechanical Engineering, Engineering Physics, Instrumentation, Computer Science Engineering, AI, Material Science or similar subject areas or B.Des. or M.Sc./equivalent in Biotechnology, Chemistry, Life Sciences, and related sciences or M.B.B.S, B.D.S, B.Pharm, Pharm.D., BAMS, BHMS or any equivalent Clinical Degree in related disciplines.

Or

Sponsored Candidate (Need 2 years of work experience after graduation, in field related to graduation).

◆ International:

Minimum 50% aggregate score of 4-year Graduation or equivalent in Relevant Engineering Branch from Govt. approved Institution

Selection Process

- ◆ The Selection process for this Programme is based on the merit of MIT-WPU CET 2024 Personal Interaction conducted by MIT-WPU. Candidates with NEET-PG 2024 / GPAT 2024 / GPAT 2022 / GPAT 2021 / NEET-AIIMS (INI-CET), NEET-MDS 2024 / GATE 2024 / GATE 2023 / GATE 2022 Qualified (Obtained a positive score) / PERA 2024 Score will be given preference.
- ◆ For admission under sponsored category, candidate should have minimum two years of fulltime work experience in a registered firm/ company/ industry/ educational and/ or research institute / any Government Department or Government Autonomous Organization in the relevant field in which admission is sought.

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.





Life @ MIT-WPU





Peace Studies: Fostering Holistic Growth

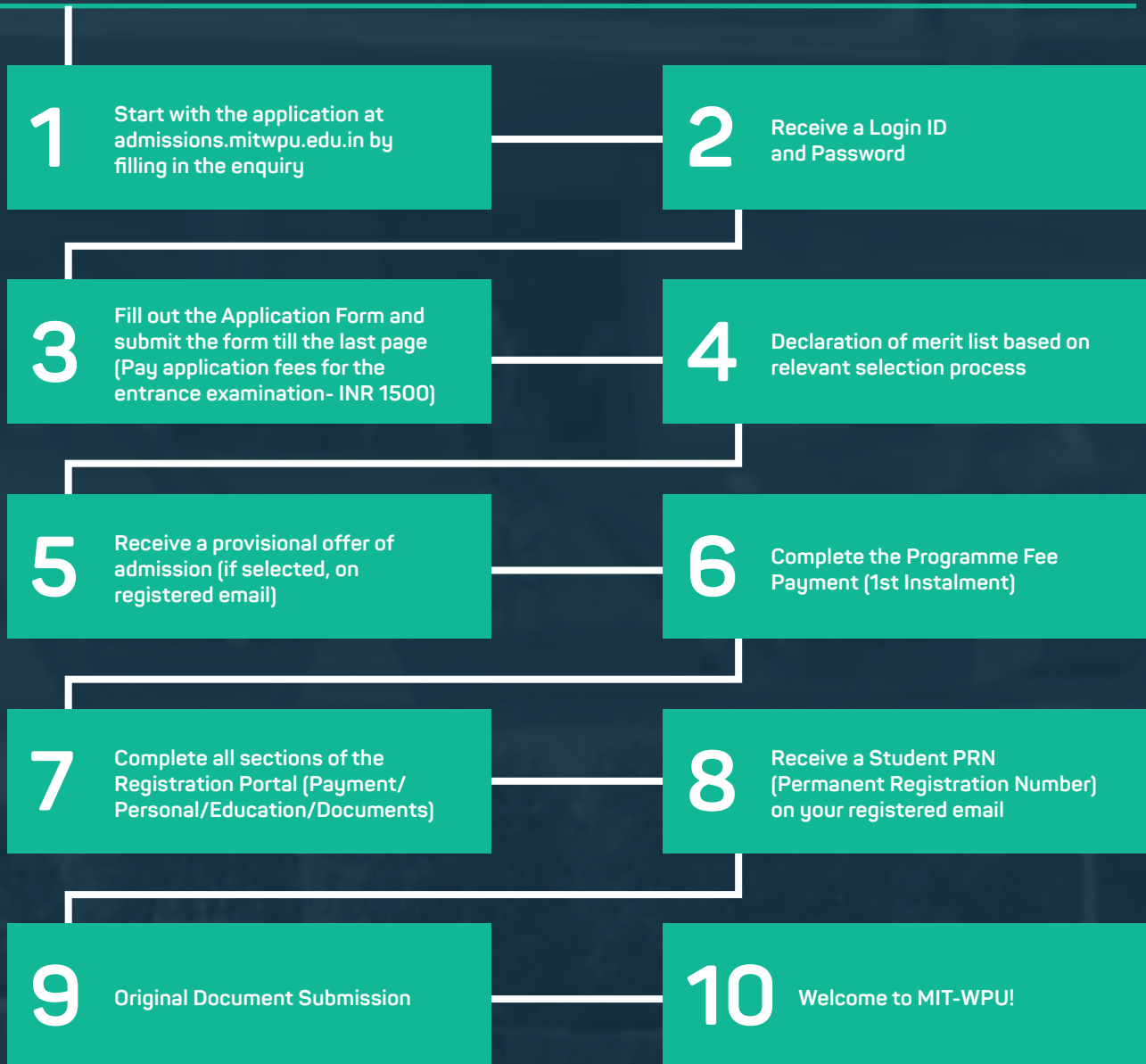
Understanding the importance of inner and social peace and conflict management skills is crucial in today's world. MIT World Peace University has adopted UNESCO's core vision of 'Building Peace in the Minds of Young Men and Women' as its guiding ethos.

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
MIT WORLD PEACE UNIVERSITY | PUNE
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

Call: +91-20-71177137
WhatsApp: +91 9881492848 (Message only)
Email: admissions@mitwpu.edu.in
Website: mitwpu.edu.in
Address: MIT-WPU, Kothrud, Pune.

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