

# Legacy of Four Decades – MIT is now MIT-WPU



Dr. Vishwanath Karad

**MIT WORLD PEACE  
UNIVERSITY | PUNE**

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

**WORLD'S FIRST UNIVERSITY FOR LIFE TRANSFORMATION**

## **Master of Technology (M. Tech)** **Mechanical Engineering**

*Good Engineers Inspire Themselves,  
Great Engineers Enlighten Others*



UNESCO Chair for  
Human Rights, Democracy,  
Peace & Tolerance  
World Peace Centre  
(Alandi) Pune, India

Flagship University of MIT Group of Institutions  
MIT-WPU is recognized by UGC and Approved by AICTE

**M. Tech. (Mechanical Engineering)**

# Core Thought of MIT-WPU

Union of Science and Spirituality alone will bring Harmony and Peace to Humanity -  
Swami Vivekananda  
Since 1983, MIT Pune, is driven by Universal Values, Ethos, Culture and Traditions  
for the well-being of the Global Society at large

## Dr. Vishwanath D. Karad's View

Our Visionary Founder's passion has always been to create an educational system that blends science & spirituality. He advocates that Peace is not just a concept or theory; **“Peace is to be Practiced and Experienced.”**

## Peace in Education

Education without values & ethics is meaningless and could even be dangerous to the society.

At WPU, we aspire to make our student contribute to the global sustainable peace and welfare of humanity.



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# Technology, Research, Social Innovation and Partnerships for Sustainability



# MIT-WPU Learning Approach

*Technology Courses*  
*Theory, Laboratories and Practice*

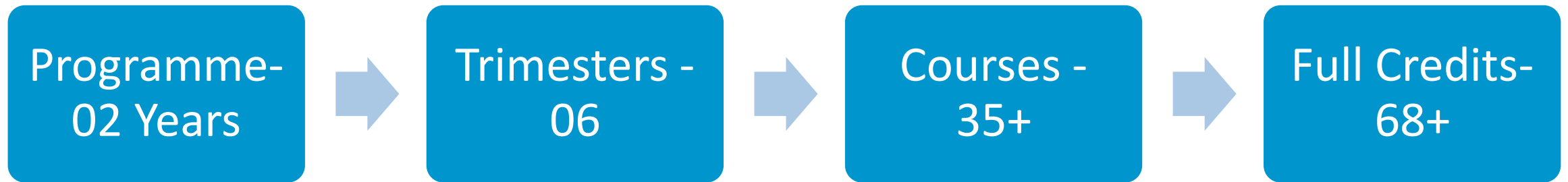
*Research, Explorations and Collaborations*

*Experiential Learning*  
*Projects, Assignments and other activities*

*World Peace Courses*  
*Yoga, Sports, Ethos, Ethics, Liberal Arts and Life Skills*

# M.TECH. MECHANICAL (Design Engineering)

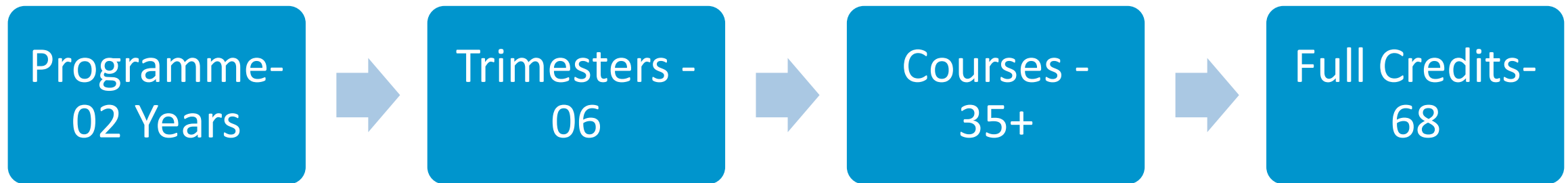
Admission Intake: 24  
Academic Year: 2019 - 20



A blend of periodic written assessments and continuous assessments will be used for better engagement of student and effective evaluations.

# M.TECH. MECHANICAL (Thermal Engineering)

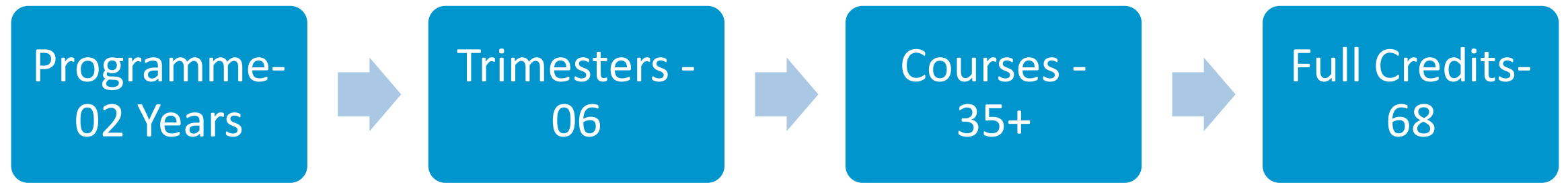
Admission Intake: 18  
Academic Year: 2019 - 20



A blend of periodic written assessments and continuous assessments will be used for better engagement of student and effective evaluations.

# M.TECH. MECHANICAL (CAD/CAM/CAE)

Admission Intake: 18  
Academic Year: 2019 - 20



A blend of periodic written assessments and continuous assessments will be used for better engagement of student and effective evaluations.

# Objectives of the Program

Provide world-class postgraduate engineering curriculum comprising of foundation, core, electives, and unique courses related to World Peace along with live projects

Prepare and equip students for opportunities in ever changing engineering domain with hands-on industrial software tool.

Transform the students to become globally competent professionals through industry/research based projects

Nurture the creativity and inculcate entrepreneurial skills among the students





# Salient Features

- Perfect blend of **academia**, **industry**, and **research**
- **Internship/ Industry** project
- Curriculum is delivered through highly qualified and experienced faculty
- Opportunity to work on **Interdisciplinary** projects
- Excellent academic **ambience** and **vibrant** campus life
- Effective **Mentoring** Scheme
- On-campus **Incubation Centre** to nurture the Start-Ups
- State-of-the-art **Infrastructure**
- **Scholarships**



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# Laboratory Infrastructure

**Total Dead Stock Value 6 Cr approx.**

**List of Major Laboratories and Equipment:**

- ❑ Multi channel FFT Analyzer System
- ❑ Vibration Meter
- ❑ Wear and Friction Monitor
- ❑ Four Ball Tester
- ❑ Hydraulic Fatigue Testing machine
- ❑ Diffused Light Polariscopes
- ❑ High-end Computational Software Packages with state of the art Hardware
- ❑ Universal Testing Machine
- ❑ Hydraulic/Pneumatic Circuit Simulator (Automation Studio)
- ❑ Computerized Multi-Fuel research engine test setup



**Design and Simulation Lab**



**Metallurgy Laboratory**



**Heat Transfer and Refrigeration**



**Renewable Energy Laboratory**

# Funded Research Projects

## List of Ongoing Funded Research Projects

Sr. No	Title of Project	Name of Researcher	Commencement Year	Amount (Rs.)	Funded Agency
1	Design, Development and Proto Building of Solar Energy Driven Desiccant and Ejector-based environmental friendly Air Conditioning System.	Prof. A.A. Nene	2017	9,37,000/-	Ministry of New and Renewable Energy (MNRE)
2	Design and Development of indigenous Autonomous Lab Heliostat Model With Tracking Mechanism and Solar Flux Measurement for Heliostat Principle	Prof. P.M. Gadhe	2017	1,00,000/-	BCUD
3	Design and Development of DC Inverter operated Air Conditioner using refrigerant HFC-161 as an alternative to HCFC-22	Prof. K.V. Mali & Prof. A. S. Utage	2017	\$3950	ASHRAE



# Industry Collaborations

The interaction with various Companies are in following ways :

- ❖ Students undergo summer and winter internships.
- ❖ Recruitment of students for placement.
- ❖ Students undergo industrial in-plant training.
- ❖ Industrial visits for the students.
- ❖ Students take up Industry sponsored Projects.
- ❖ Guest lectures on the latest trends in Engineering for the students by Company personnel.
- ❖ Industries sponsor student events.
- ❖ Industries float awards for student achievers



Enriching Lives



THERMAX General Motors



Mercedes-Benz



L&T Infotech



Godrej & Boyce Mfg. Co. Ltd.



BOSCH



BHARAT FORGE



KALYANI



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*And Many More...*

## Technology & Visualization Competency Center



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# Student Chapters

1. The Institution of Engineers, India (IEI)
2. ASHRAE Student Chapter
3. ISHRAE Student Chapter



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# Technical Events / Activities



**Visit To Pune Machine Tool Expo 2018**



**Hand On Training To HVAC TAB**



**Tech Talk on  
 Career opportunities in the field of  
 HVAC&R**



**Visit To Forbes Marshal 2018**



**Expert Lectures By Dr. Sant, IITB**



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# Placements



*And Many More...*

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# Academic Advisory Committee



**Rashmi Urdhwareshe**  
 Director, ARAI



**Dr. Jay Gore**  
 Professor, Purdue University



**Anu Aga**  
 Chairman, Thermax



**Girish Wagh**  
 VP and Head  
 PBU, Tata Motors, Pune



**Rajeev Bajaj**  
 MD, Bajaj Auto



**Avinash Dharmadhikari**  
 Former, IAS



**Dr. Sangeeta Kale**  
 Professor and Head,MMG  
 DIAT, Pune



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# Reach us at

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## M.Tech. Coordinators

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**Scholarships for GATE Qualified Students From AICTE**