

## LEGACY OF FOUR DECADES



Dr. Vishwanath Karad

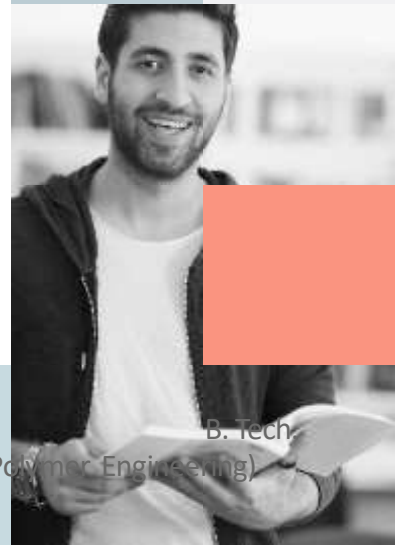
**MIT WORLD PEACE UNIVERSITY** | PUNE

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

@ Kothrud, Pune, India



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



B. Tech  
(Polymer Engineering)





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

**GOOD ENGINEERS INSPIRE THEMSELVES GREAT  
ENGINEERS ENLIGHTEN OTHERS**

# Bachelor of Technology (B.Tech.) Polymer Engineering



**MIT-WPU**

॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

Dr. Vishwanath Karad

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**MIT-WPU is a**

# **Flagship University**

**of 4 Decade Young MAEER's  
MIT Group of Institutions, Pune**

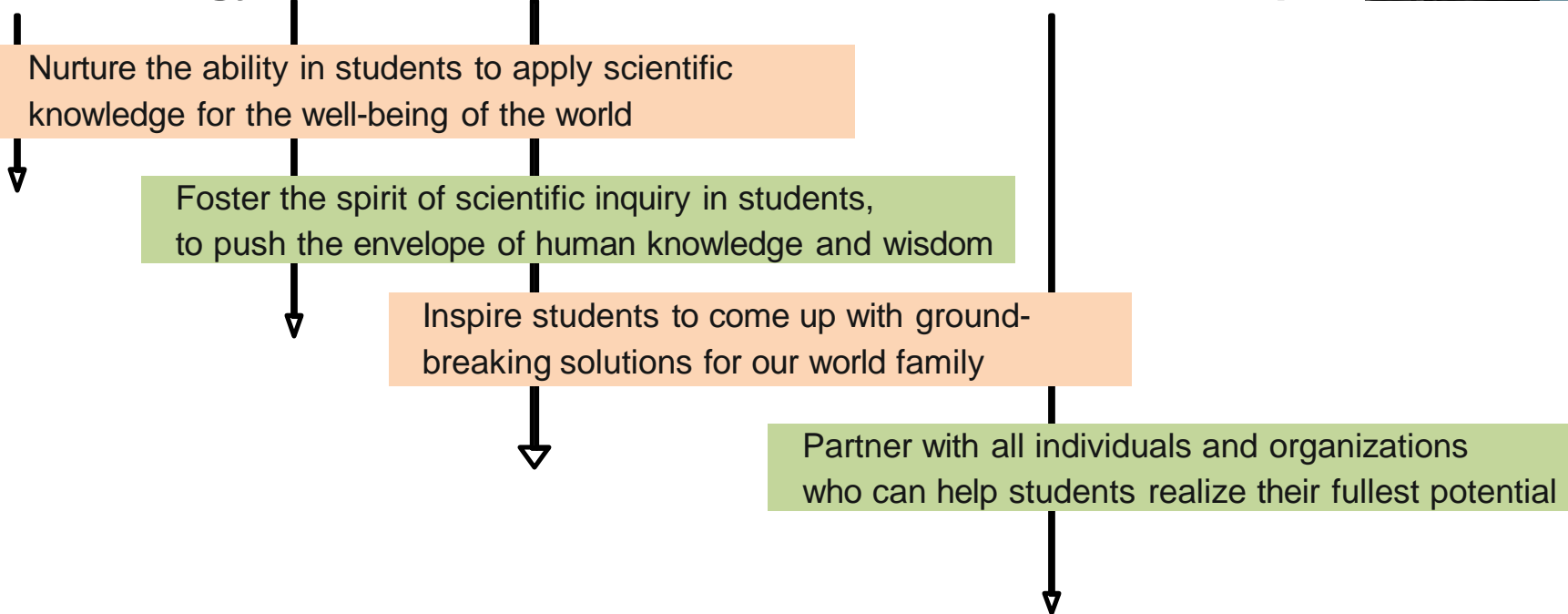
MAEER's MIT Group of Institutions, Pune, Best Known as MIT Pune, is synonymous for Engineering Education especially for it's Foundation Campus of Kothrud, Pune.

Today, MAEER's MIT Group of Institutions caters to KG to PG education for it's 50000+ bright Students in Engineering, Management, Pharmacy, Health Sciences (Medical), Art and Design, Humanities, Social Sciences, Human Rights and Peace Education, Politics and Governance Studies, School Education and Polytechnic.



## MIT-WPU Tagline

### Technology, Research, Social Innovation and Partnerships





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## Advantage @ MIT-WPU

**More Focus on Output than Input**  
Outcome Based Education

**Personality Development**  
Through World Peace Method



**More Focus on Learning**  
Student Centric Approach

**Problem / Project based Learning /  
Experiential Learning / Case Studies**  
Constructivist Pedagogy  
based on Active Learning

**International Exposure / Internship / Project**  
Making Truly Global and Social Professionals



Bachelor of Technology (B.Tech.)

# POLYMER ENGINEERING



**Best Undergraduate Programme in Polymer Engineering**



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## About Department

A unique full time 4 years course with 60 intake was unheard of in India in the early 1980's.



The course came into existence in 1983 due the visionary foresight of Prof.(Dr.) Vishwanath D. Karad.

The first curriculum was designed with inputs from stalwarts like Dr. R. A. Mashelkar, Dr. V. M. Nadkarni, Dr. S. C. Potnis.

Prof. M. V. Joshi was the first Head of Department. He brought in with him more than 30 long years of experience in academics.





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## Objectives of the Programme

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

Prepare and equip students for taking-up challenges in Polymer and Allied areas with sound industry exposure

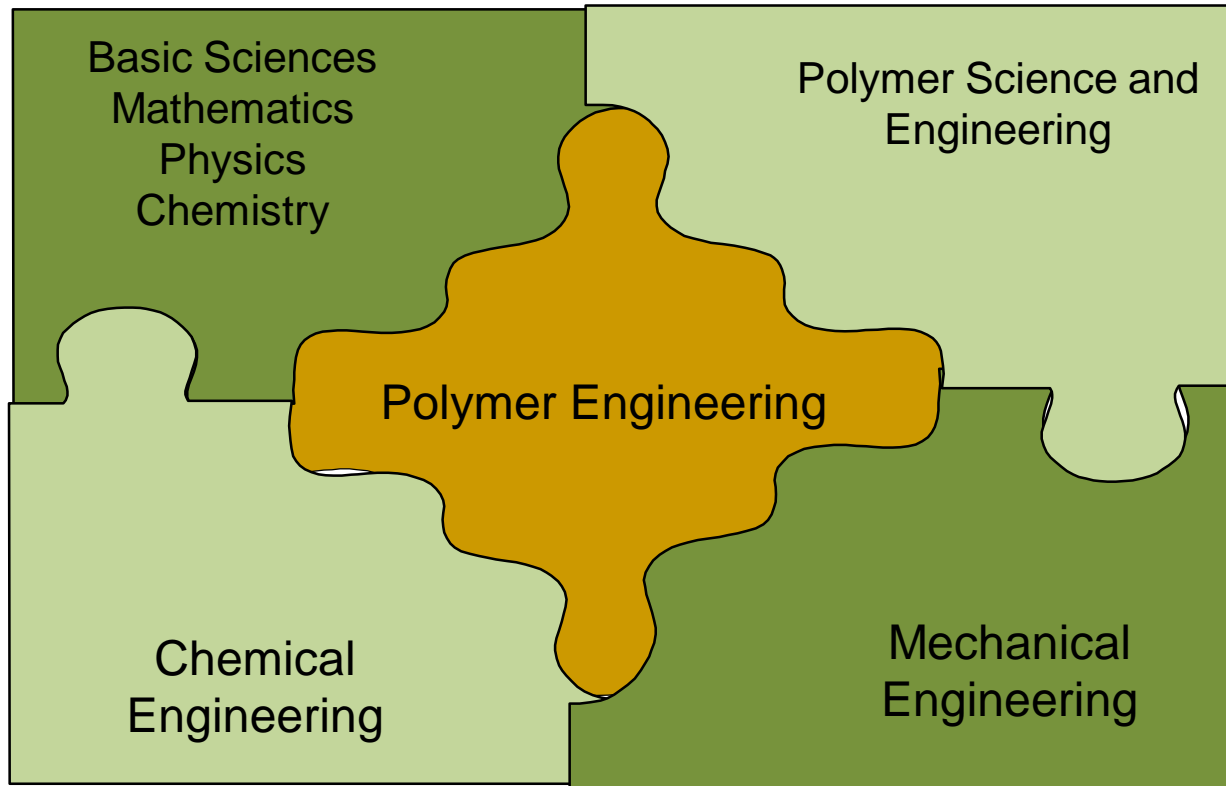
Transform the students to become globally competent professionals through international training/internship

Nurture the creativity and inculcate entrepreneurial skills among the students





# Polymer Engineering Program





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## What do Polymer Engineers do?

Develop tailor-made polymeric materials for various applications

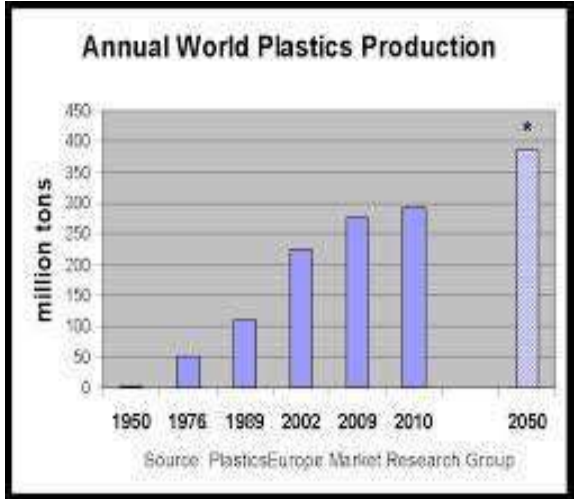
Design, develop and up-grade the products, systems and processes related to various aspects of life

Provide sustainable solutions to the problems of society within the constraints of economy and environment

At MIT WPU, we develop Polymer Engineers with sound human values and sense of world citizenship



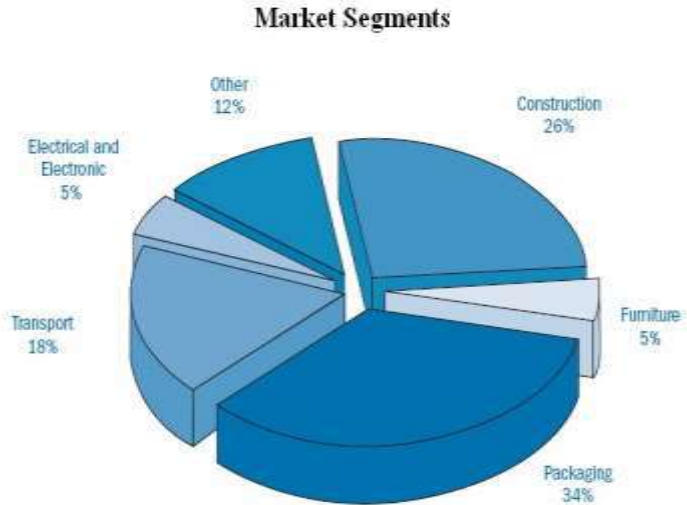
# Need for Polymer Engineers: *Past and Present Scenario*



Global consumption of polymer and allied materials is about 300 million tons with an annual growth rate of 7%

Present Indian market size is about 1000 MT.

Market size in next five years will rise to about 3000MT.





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## Industry Institute Interaction

Industry collaborated projects

Industrial visits – Every semester students visit various industries

Invited lectures by Experts : Career guidance, Recent trends in Polymer and Allied fields, Lectures supplementary to curriculum

MoUs – DSM Engg. Plastics, Compuplast Inc., AIMPA, IPUA

Support for Department's Annual Event .





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## How will this program be taught?

Duration	Four Years, Full Time Program
Pattern	<ul style="list-style-type: none"><li>• Trimester pattern</li><li>• Twelve Terms</li></ul>
Credit System	<ul style="list-style-type: none"><li>• Choice based Credit Systems</li><li>• 170+ Credits</li></ul>





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## Tracks: B. Tech. (Polymer Engineering)

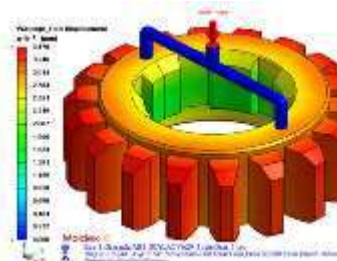
**Polymer Material Science  
and Manufacturing  
Technology**



**Polymer Rheology and  
Processing**



**Tool and Product Design  
and Simulation**





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## Expert Faculty\*

Dr. Devang Khakhar  
Director  
IIT Mumbai

Dr. S. Bose  
Dept. of Material Science  
IISc, Bangalore

Dr. Vikas Nadkarni  
Managing Director  
TCSPL, Pune

Dr. Rajiv S. Basargekar  
Technical Director  
APPL Industries, Pune

Dr. Ashish Lele,  
Chief Scientist  
NCL, Pune

Dr. Nandika D'Souza  
Professor and Head  
NTU, USA

Dr. Yogesh Joshi  
Professor,  
IIT Kanpur

Dr. Premnath  
Director  
Venture Centre, NCL, Pune

Dr. Guruswamy  
Principal Scientist  
NCL, Pune

Dr. Umashankar Patro  
Dept. of Material Science  
DIAT, Pune

Dr. D.D. Kale  
Consultant, Mumbai

Dr. M.A. Shenoy  
Consultant, Mumbai

Mr. Amit Pendse  
Managing Director  
Electronica, Pune

Mr. Vikram Makar  
Managing Director  
Oriental Rubber Ind., Pune

Mr. Vijay Kudchadkar  
Director  
Compuplast Inc, Canada



\*Consent acquisition in process



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## Advisory Council\*

**Dr. R.A. Mashelkar**  
Former DG-CSIR, Delhi  
National University Professor

**Dr. S. Sivaram**  
Former Director-NCL,  
Pune

**Dr. B.D. Kulkarni**  
Distinguished Scientist  
NCL, Pune

**Dr. Ashish Lele**  
Chief Scientist,  
NCL, Pune

**Mr. Vikram Makar**  
Managing Director,  
Oriental Rubber Ind. Pune

**Dr. Sabu Thomas**  
Professor  
M.G. University, Kottayam

**Dr. Prakash Trivedi**  
Polymer SBU  
Gharda Chemicals,  
Mumbai

**Mr. Sudhir Pitre**  
Director-Technical  
Garware Bestretch Ltd.,  
Pune

**Mr. Hemant Minocha**  
Managing Director  
Rajiv Plastics Ltd., Mumbai

**Mr. Devang Zhaveri**  
Managing Director  
Shubhada Polymers, Mumbai

**Dr. Babu Padmanabhan**  
Managing Director,  
Steer India Ltd., Bangalore

**Mr. Rajendra Joshi**  
Application Development  
Manager  
DSM Engineering Plastics, Pune



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## Advisory Council\*



**Dr. Vikas M. Nadkarni**  
Managing Director  
TCSPL, Pune



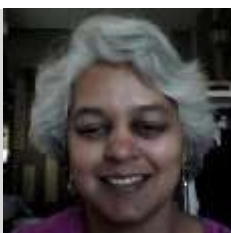
**Prof. Jayesh Bellare**  
Professor,  
IITB, Mumbai



**Prof. Yogesh Joshi**  
Professor, IIT Kanpur  
Shanti Swaroop Bhatnagar Award



**Dr. Rajiv S. Basargekar**  
Technical Director  
APPL Industries, Pune



**Mrs. Shilpa Kotwal**  
Consultant, Pune



**Mrs. Deepali Kelekar**  
Asia Pacific Manager  
Lyondellbasell, Mumbai



**Mr. Jayant Dhobley**  
Vice President  
Amcor, Singapore



**Mr. Govind Khetan,**  
Managing Director,  
Kraton Polymers, Mumbai

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## Distinguished Alumni



**Prof. Yogesh Joshi**  
Professor, IIT Kanpur

**Shanti Swaroop Bhatnagar  
Award**



**Dr. Nandika D'Souza**  
Professor,  
North Texas University



**Dr. Sachin Jain**  
Director  
SKYi Composites, Pune



**Dr. Prahsant Rajan**  
Assistant Professor  
Iowa State University



**Dr. Asmita Khanolkar**  
Manager—Manufacturing Engg and  
Operations, CeQur Corp.

**Woman of the year Award, 2017,  
Indian-American community**



**Dr. Sunil Karad**  
Executive Director  
MIT, Group of  
Institution, Pune



**Mr. Vikram Wani**  
IRS, Govt. of India

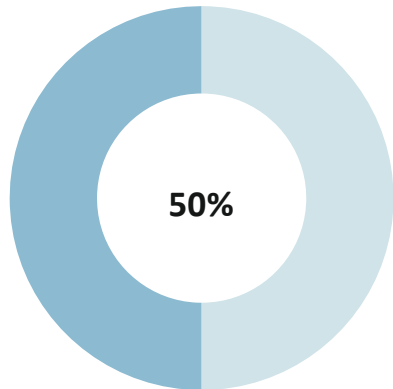


**Mr. Jayant Dhobley**  
Vice President (Strategy)  
Amcor, Singapore

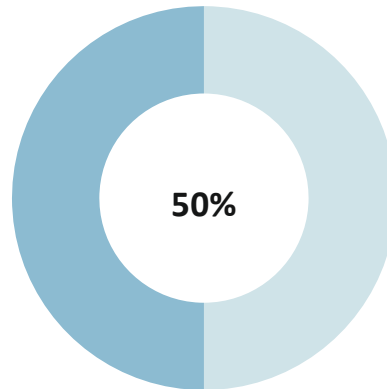
## Assessment

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

**End Semester Examt**



**Continuous Assessment**



- Choice Based Credit System
- Experiential Learning





## Major Industry Interactions



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## Campus Placements



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## Departmental Activities



Dr. Teena (Polymer Engineering)



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## Campus life





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## Programme Intake, Eligibility, Selection Criteria

PROGRAM INTAKE	ELIGIBILITY*	SELECTION CRITERIA
60	<ul style="list-style-type: none"><li>•Candidate should have passed 10 + 2 in Science from any statutory board with a minimum of 50 % marks (For Open Category) and 45% marks (For Reserved Category) in total as well as in PCM.</li></ul>	<ul style="list-style-type: none"><li>• Valid Score in MHT–CET 2018 (For Maharashtra Domicile Candidate) and JEE (Mains) 2018 for All India Candidates.</li><li>• 70% Seats Reserved for Maharashtra Candidates and 30% seats Reserved for All India Candidates.</li><li>• Reservations As per Reservation Policy norms of Government</li></ul>

\*Eligibility can be relaxed for candidates with exemplary achievements in sports, candidates being National/International players, candidates with NCC excellence after due scrutiny for each case.

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## • Fee Structure

- Indian students - **Rs. 2.85 Lakhs** per year

*(Highly meritorious students will be given a further waiver in tuition fees as per their score.)*

*(Fees Includes Rs. 50,000/- for Air Fare for International Study Program in Third Year)*

- Foreign students - **\$ 5500** per year
- Hostel Fees: **Rs. 90,000/-** (Including of Mess)