

# Dr. Trishul P. Kulkarni

Training and Placement Officer  
Assistant Professor  
(Mechanical Engineer)



Dedicated Training and Placement Officer (TPO) bridging student potential with industry opportunities for career growth.

**My ikigai is to help my students achieve their true potential!**

With experience in both software and core mechanical industries, I offer valuable insights into diverse job markets, informing my role as a Training and Placement Officer (TPO). I believe in every student's potential and prioritize awareness. My responsibilities include equipping students with skills, enhancing employability through workshops and 'Career Path Module,' conducting employability tests, and leveraging CSR initiatives for advanced skill development. I also connect students to industry opportunities, managing placements, and internships. My success lies in nurturing industry relationships and utilizing alumni networks to support students' career growth.

## EDUCATION

- Doctor of Philosophy (PhD) in Mechanical Engineering
- Master of Technology (M.Tech) College of Engineering Pune (COEP)
- Bachelor of Engineering (B.E.) in Production Engineering


## RESEARCH

I am actively engaged in research across multiple domains, including Tribology, Education Technology, and the integration of AI in education. To date, I have contributed more than 15 publications in the form of international journal articles and book chapters. My commitment to research is further underscored by my regular participation in national and international conferences, where I present and publish my latest findings.

## EXPERIENCE

- Over the course of my professional journey, I have seamlessly blended my roles as an **Training and Placement Officer (TPO)** at Maharashtra Institute of Technology, Chh. Sambhajinagar since June 2021, and an **Assistant Professor in the Mechanical Engineering** Department since September 2011. In these capacities, I've established strong industry connections, facilitated placements and internships, orchestrated training programs to boost students' employability, and actively engaged in student career guidance initiatives.
- Prior to this, my experience spans software engineering role at Patni Computer Systems Limited and a Graduate Engineer role at Sanjeev Auto Parts Pvt Ltd.
- My diverse background includes teaching, research, training and placement, aptitude trainer project coordination, software development, and quality assurance, reflecting a well-rounded career path that bridges academia, industry, and technology-driven initiatives.


## CONTACT


 09270933051

 trishulkulkarni@gmail.com

 [www.linkedin.com/in/trishulkulkarni](https://www.linkedin.com/in/trishulkulkarni)

 <https://www.youtube.com/c/ePradnya>

 <https://scholar.google.com/>

 <https://topmate.io/trishulkulkarni>

# Dr.Trishul P. Kulkarni

## PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

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Working as a Dean (Training and Placement) since November 2024 and worked as Assistant Training and Placement Officer (TPO) at Maharashtra Institute of Technology, Chh. Sambhajinagar since June 2021.

- Established and nurtured strong relationships with industry partners to facilitate on-campus, pool campus placements and internships.
- Proactively sought out and invited new companies and organizations to participate in on-campus recruitment drives and offer internship opportunities to students.
- Successfully coordinated placement drives, attracting top companies to campus for recruitment, and managing logistical aspects of the events.
- Facilitated internships, both on-campus and with external organizations, to provide students with practical industry experience.
- Organized and conducted MIT's flagship training program 'Career Path Module', and other workshops, and seminars to enhance students' technical and soft skills, improving their employability.
- As part of student guidance initiatives, I facilitated employability assessment tests for students, leveraging the results to conduct both group and individual counseling sessions, providing tailored career guidance and skill development recommendations to enhance their employability and career prospects.
- Proactively identified and collaborated with organizations offering training programs at no cost to institute as part of their CSR initiatives (Nandi foundation, Rubicon, American India Foundation), subsequently inviting, and implementing these programs within our institute, with a focus on soft skill development. This initiative aimed to equip our students with essential interpersonal, communication, and leadership skills, enhancing their overall employability and career readiness while fostering beneficial partnerships with socially responsible organizations.
- As TPO, I actively explored and incorporated free online training programs from prestigious organizations such as NASSCOM, TCS iON, Infosys Springboard, and Tata STRIVE, focusing on advanced industry-ready skills. This proactive approach bolstered students' readiness for the job market by providing access to cutting-edge training resources from renowned industry players, further enriching our institution's commitment to their professional development.
- Utilized our alumni network to stay informed about industry trends, discover job openings, and encourage productive connections between alumni and current students.

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Working as an Assistant Professor in the department of Mechanical Engineering at Maharashtra Institute of Technology, Chh. Sambhajinagar since September 2011.

- I also serve as an Assistant Professor in the Mechanical Engineering department, delivering undergraduate and postgraduate courses encompassing Mechanical Engineering principles, Business Communication, Employability Skills, and Aptitude.
- Managed diverse roles both at the departmental and central level, actively contributing to the accreditation processes for NAAC, NBA, and Autonomy.
- As the Regional Technical Coordinator for VLabs, an initiative by the Government of India under MHRD, I successfully led the integration of virtual labs into the curriculum for all branches throughout the institute.
- I conducted expert talks at numerous institutes across the nation to promote and popularize the Virtual Lab initiative. Additionally, I served as a mentor for virtual labs development, representing VLabs IIT Bombay.
- Worked as a NSS program officer for more than six years.

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Worked at Metric Consultancy Ltd, Pune as IGI – Project Coordinator from April to September 2011, this project aims at mobilizing rural poor for the poverty elimination. The concept was to establish a rural communication hub equipped with the latest information and communication Technology which will help poor families to come out of poverty.

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Worked at Patni Computer Systems Limited, Mumbai as Software Engineer from September 2007 till March 2011. As a software Engineer I was part of different projects, I have performed different roles during various phases of SDLC such as Requirements and Analysis, Design and Construction, Testing, Release. My core areas of skills are design and development using Core Java, Servlets, JSP, J2EE, Struts, XML, HTML, Oracle, JavaScript, and IBM Content manager.

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Worked at Sanjeev Auto Parts pvt ltd Chh. Sambhajinagar as Graduate Engineer from January 2004 to April 2005, at Sanjeev I was the part of quality assurance department of gear manufacturing unit.

## EDUCATIONAL QUALIFICATIONS

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Doctor of Philosophy (PhD) in Mechanical Engineering from Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar in year 2024.

Master of Technology (M.Tech) in Production Engineering (Manufacturing Technology and Automation) from College of Engineering Pune (COEP) Pune, in the year 2007.

Bachelor of Engineering (B.E.) in Production Engineering, from Marathwada Institute of Technology, Chh. Sambhajinagar in the year 2003.

## AWARDS, ACHIEVEMENTS AND RECOGNITIONS

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- Member of judging panel for 'Innovate for India Challenge 2022 (IFIC22)' MAGIC's flagship annual innovation event.
- Recipient of 'Shiksha Sanman Puraskar' on 5th Sept. 2020 by Akhil Bhartiya Rashtriya Shaikshik Mahasangh
- Designated as mentor for BOOTATHON - KnockdownTheLockdown-KTL by VLabs IIT Bombay, March 2020.
- Virtual Lab 'MachineTool' is hosted on VLabs national portal.
- Designated as virtual-lab reviewer for Vlabs, an MHRD Govt. of India Initiative
- Designated as mentor of virtual lab Bootathon, 4-10 Nov. 2019, Rajkiya Engineering College, Banda, Uttar Pradesh.
- Received Silver Certification for the development of Virtual Lab 'Machine Tools' in Mechanical Engineering from VLabs IIT Bombay.
- Designated as mentor for online offering of IITBOMBAYX in AICTE approved FDP 'Foundation program in ICT for education', March-July 2017
- Conferred an 'Award of Excellence' by IITBOMBAYX for being top performer among the FDP participants under the National Mission on Education through ICT (MHRD)
- Certificate of Excellence for outstanding contribution towards the 'GE GDC Governance' in Jan. 2011 at Patni Computers Ltd.
- Team Award at Business Unit Level for the month of Aug. 2008 at Patni Computers Ltd.

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## INVITED TALKS DELIVERED

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- Invited speaker for One-Day National Workshop on 15 Jan. 2021 for Faculties in Computer Sciences and Applications, 'Importance and Applications of Vlabs in Computer Science' at Swami Ramanand Teerth Marathwada University, Nanded.
- Invited speaker for webinar on 'Virtual Labs' on 5 Dec. 2020 at Ramkrishna Paramhansa Mahavidyalaya, Osmanabad.
- Invited speaker for webinar on 'Virtual Labs: The New World of Experimentation' on 3 Oct. 2020 organized by Barshi Institute of Technology, Barshi.
- Invited speaker for webinar 'Virtual Labs Outreach Programme' 6th August 2020 organized by Dr. Babadaheb Ambedkar Technological University, Lonere.
- Invited speaker for webinar on 'Virtual Laboratory : Importance and Applications' on 29 July 2020 organized by Swami Ramanand Teerth Marathwada University, Nanded.
- Resource person for five days workshop on 'ICT tools in online teaching' organized by P G Department and IETE cell, Marathwada Institute of Technology, CIDCO, Chh. Sambhajinagar during 8 to 12 July 2020.
- Talk delivered on 'Emotional Intelligence' at Six days FDP on Empowering Faculty in English Communication and Soft Skills organized by MIT, Chh. Sambhajinagar

## PUBLICATIONS IN NATIONAL / INTERNATIONAL JOURNAL

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- Optimizing nanoparticle attributes for enhanced anti-wear performance in nano-lubricants, Journal of Engineering and Applied Science (Springer), (2024) 71:30.
- Anti-wear (AW) and extreme-pressure (EP) behavior of jojoba oil dispersed with green additive CaCO<sub>3</sub> nanoparticles, Journal of Engineering and Applied Science, Springer, 2023, 70-1, 29.
- Construction and Praxis of Six Sigma DMAIC for Bearing Manufacturing Process, Materials Today: Proceedings, Elsevier, 2023, 72, 1426-1433
- Training through Blended Mode in ICT for Effective Teaching Learning Process, Chronicle of Humanities and Cultural Studies, 2019, Vo. 5, Issue. 1, pp. 119-121.
- Analyzing the Impact of MOODLE and its Modules on Students Learning, a Case Study in Mechanical Engineering, published in Journal of Engineering Education Transformations 32 (3), 56-61 in January 2019
- Wear Performance Analysis of Cottonseed Oil as a Lubricant with Boric Acid Additive, International Journal of Innovative Research in Science, Engineering and Technology, Volume 6, Issue 4, Pages 6804-6810, 2017

## PUBLICATIONS IN NATIONAL / INTERNATIONAL CONFERENCE PROCEEDINGS

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- Data-driven modelling for tribological performance of nanolubricants using artificial neural network, accepted for 2022 IEEE International Conference 5NANO 2022 held during 28-29 April 2022 at Mangalam College of Engineering, Kottayam, Kerala, India
- Cryogenically treated SiC based novel ceramic composite for advanced automotive brake applications, Online International Conference on 'Recent Trends in Mechanical Engineering' (ICRTME-2021), 22-23 Jan. 2021, organized by the Department of Mechanical Engineering, Maharashtra Institute of Technology, Chh. Sambhajinagar
- Application of coconut coir for eco-friendly insulated sandwich panel, International conference on recent trends & research in Engineering and Science (ICRTRES 2K20), - 2- 3 May 2020, Padm. Dr. V. B. Kolte College of Engineering, Malkapur.

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- Dielectric behavior of Cr substituted cobalt ferrite nanoparticles, Materials for Advanced Technology and Applications, MATA-2019, 22-23 Aug. 2019, Maharashtra Institute of Technology, Chh. Sambhajinagar
- Integrated learning Model: Combining MOOC and Classroom Teaching for effective Learning, International Conference on Scholarly Communication and Knowledge Management in Higher Educational Institutions (ICSKH 2014), Nov. 2014

## PUBLICATIONS AS BOOK CHAPTER

- Virtual Experimentation: An Advanced Tool for Educational Technology, 'Technology and Tools in Engineering Education', 2021, CRC Press Taylor and Francis.
- Applications of ICT: Pathway to Outcome-Based Education in Engineering and Technology Curriculum, Technology and Tools in Engineering Education, 109-142, 2021, CCRC Press Taylor and Francis.
- Tools and Technology Assisting Accreditation in Engineering Education, Technology and Tools in Engineering Education, 159-183, 2021, CRC Press Taylor and Francis.
- Challenges and Futuristic Approach of Blended Learning in Higher Education, Innovative Education Technologies for 21st Century Teaching and Learning, 113-131, 2021, CRC Press Taylor and Francis.
- A Review of the tribological and thermal effectiveness of graphene-based nano-lubricants, Novel Applications of Carbon-based Nano-materials by CRC Press Taylor and Francis. (Accepted but yet to be published)
- AI-Based Predictive Models for Adaptive Learning Systems, Artificial Intelligence in Higher Education, CRC Press Taylor and Francis. (Accepted but yet to be published)
- Impact of AI on Teaching Pedagogy and its Integration for Enhancing Teaching-Learning, Artificial Intelligence in Higher Education, CRC Press Taylor and Francis. (Accepted but yet to be published)
- Applications of Artificial Intelligence in Learning Assessment, Artificial Intelligence in Higher Education, CRC Press Taylor and Francis. (Accepted but yet to be published)

## CONTINUOUS PROFESSIONAL DEVELOPMENT AND KNOWLEDGE ENHANCEMENT

I continuously enhance my knowledge through active participation in Faculty Development Programs, Short-Term Training Programs, Workshops, Webinars, and MOOCs aligned with my areas of interest, encompassing Tribology, Education Technology, Research Methodology, Entrepreneurship, and the integration of AI in education.