

## Curriculum Vitae

**Name:** Dr. Abhay Shivajirao Gore

**Address:** Mustafabad, Beed Bypass, Chhatrapati Sambhaji Nagar

**E-mail:** abhay.gore@mit.asia

**Mobile:** 898349514

**Date of Birth:**13/04/1988



### Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Completed		Dr. BAMU, Aurangabad	2025	-	-
M.E./M. Tech.	CAD/CAM	SGGSIE& T	SRTMU, Nanded	2012	8.6	<i>Distinction</i>
B.E./B.Tech.	Mechanical	TPCTs COE	Dr. BAMU, Aurangabad	2009	69.25	First Class

**M. Tech. Project:** Design and Analysis of Coil and Coil support of ADITYA Tokamak

**Ph. D. Research:** Mathematical Modeling and experimental investigations in Wire Electro-Discharge machining of ceramic particulate reinforced Metal Matrix Composites.

**Key Research Areas:**

### Experience

Sr. No.	Organization	Post	From	To	No. of Years
1	Maharashtra Institute of Technology, Aurangabad	Asst. Prof	31/12/2012		14

**List of Courses Taught/Teaching at UG level: PPE, CAD/CAM/CIM, CAD/CAM/CAE, DME-I, MMT, CT, MD, RM, RER, PECSR, Industry 4.0, FAD, DFI,**

**List of Courses Taught/Teaching at PG level: FEA**

#### **Additional Assignments/Duties**

Dept. TPO co-ordinator

IPT co-ordinator

Industry Institute Interaction Cell

#### **Membership of Professional Bodies**

- Member of ASM International under ASM Pune Chapter (C-06363976)
  - Member of The Indian Institute of Metals-IIM (ST-1-65385)
  - Life member of Division of Plasma Physics, Association of Asia Pacific Physical Societies-AAPPS-DPP (LM-592)
  - Life member of Plasma Science Society of India-PSSI. (LM-314)
  - Life member of India Society of Technical Education-ISTE. (LM-108803)
  - Certified member of National TPO club by Skill Academy
- Certified member of Ready Engineer program, by TATA Technologies Ltd.

#### **Research Projects/Projects Guided**

#### **Computer/Software Proficiency**

CATIA V5, ANSYS V11, V12, V19, UG NX 6, CREO, ProE, AutoCAD 2012, 2013,2019, MiniTAB, C-language, CPP language

#### **Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended**

- One-Day Research Conclave on “Research advancements in Science and Technology” jointly organized by the Maharashtra Institute of Technology (MIT), Chhatrapati Sambhajanagar and Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, January 20, 2025.
- Completed training on Electric Vehicle by MASSIA and TTL, under CSR Ready Engineer 14 November 2024 to 16 November 2024
- FDP on “Electric Vehicle” by SkillDzire in collaboration with AICTE and Swayam Plus 2024
- One week orientation on “NEP 2020 Orientation & Sensitization Programme” organized by UGC Malviya Teacher Training Programme, Dr. Babasaheb Ambedkar Marathwada University 26 March 2024 to 3 April 2024.
- One week FDP on “Structural Equation Modeling: Advances in Research Methodology and Research Publication” organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar from 25 December to 29 December 2023.
- One week FDP on “Research Scale Development: Validation and Multi-Model Testing” organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar 24 July 2023 to 28 July 2023.
- One week FDP “Artificial Intelligence and Machine Learning Applications in Engineering” organized by Department of MED, NIT Warangal from 20 Feb 2023 to 26 Feb 2023
- One Week online Short-Term Training Program (STTP) ON “MACHINE LEARNING USING PYTHON” by CSMSS COE Aurangabad 22/5/2021 to 26/5/2021
- Three days FDP on Technology startups and IPR by KBPCOE, Satara 15/3/2021 to 17/3/2021
- Webinar on IQAC coordinators meet by Mastersoft ERP sol., 18/5/2021
- Two days educational summit on OBE and NAAC by Mastersoft ERP Sol., 14-15/5/2021
- webinar on IPR & IP Management for Startups by MIT Aurangabad 12/6/2021
- Webinar on E-vehicle by MIT Aurangabad 17/7/2021
- 5 days FDP on Artificial Intelligence by UCE, Mumbai 22/5/2020 to 26/5/2020
- 1 week FDP Usage of technology in covid -19 by TPCT COE, Navi Mumbai 28/5/2020 to 2/6/2020
- 1 week FDP on Product Development & Industrial Research -2020 GECA, 6/7/2020 to 10/7/2020
- Webinar on Use of IoT in Industry 4.0 by SIT, Lonavala 18/6/2020
- Two days online workshop on CAE Tools and It's Application for Automotive Development by VVPCOE, Ahmednagar 20-21/5/2020
- Five Days Technical Symposium on Advances in Materials and Manufacturing Engineering by MIT Aurangabad 30/6/2020 to 4/7/2020

- Webinar on NX Customization & current opportunities by SSIEMS, Parbhani 20/8/2020
- Attended 7 days FDP, on “Interdisciplinary Aspect in Modeling of Manufacturing Process” organized by Dr.BATU Ionere, in association with IIT, Bombay from 21 Nov. to 29 Nov.2020.
- Attended 7 days GIAN Course organized by MHRD, Govt. of India at NIT, Calicut, on Fundamentals and modeling of micro and nano machining processes from June 24-29, 2019 under the guidance of Prof.M.Rahaman, NUS, Singapore.
- Attended one week STTP on Advanced in material and manufacturing technologies from 01-06 March 2019, Under TEQIP-III organized by Dr.BATU.
- Attended a four days workshop on Ready Engineer organised by TATA Technologies Pvt. Ltd., 8-9, 23-24 June 2018
- Attended Training program on “Fundamentals of Tool Engineering & CAD/CAM”, at Indo German Tool Room, Aurangabad, 29 September 2017.
- Attended a Three Days National workshop on “Nanomaterials & Nanotechnology”, 15-17 September 2013 organised by Maharashtra Institute of Technology, Aurangabad

#### **Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized**

- Organizing committee member of one week FDP on “Finite element analysis: Theory, modeling and applications using ANSYS” 19-23 Jan 2026
- Organizing committee member of CII seminars
- Organizing committee member and session controller for International Conference on Recent trends in Mechanical Engineering ICRTME 2021 from 22 to 23 January 2021 by the Department of Mechanical Engineering, MIT.
- Organized one day workshop on "Design Thinking, Critical Thinking and Innovation Design" (Online) on, 06th January 2021.
- Organized One day workshop on the Topic of "Entrepreneurship and Innovation as a career opportunity" (Online) on, 07th January 2021
- Organized awareness webinar on GATE Preparation in association with Imperial Gate Institute on 15th January 2021, under the aegis of MESA.
- Organized one day workshop on study opportunities at Germany in association with Deutscher Akademischer Austausch dienst (DAAD) for the students of Mechanical Engineering on 27/09/2019.
- Organized a three day workshop on “Entrepreneurship Awareness Programme” from 20th April 2018-23rd April 2018 in association with Maharashtra Centre for Entrepreneurship Development” (MCED) to inculcate Entrepreneurial skills in budding engineers.
- Organized one day seminar on “UG Fellowship” dated 28/09/2017 in association with Dr. Janavi Inamdar, Director, Vishwaniketan’s Institute of Management Entrepreneurship & Engineering Technology, Mumbai.

- Organized ten days workshop on “Employability Enhancement Program -Mahindra Pride Classroom” in association with Mahindra Pride School and Naandi Foundation 15 Sept to 14 Oct 2017.
- Organized a seminar on “Orientation of Industrial Robots for industrial applications” dated 17 Aug 2018 in association with Marathwada Auto Cluster, Aurangabad
- Organized a seminar on “3D Printing” in association with IPRO 3D Technologies LLP, Aurangabad dated 27 Sept 2019

### Invited talks delivered

### Projects, Research Grants and Consultancy

### Intellectual Property Rights

Patent published “Predicting The Stability Of Perovskite Solar Cells With Advanced Machine Learning”, Ref No: 202511004211, 2025

### List of Research Publications

#### Papers in National/ International Journal

- Research paper in communication "Experimental Analysis of Powder-Mixed EDM on Titanium Alloy Using Copper and Graphite Electrodes with Aluminium, Silicon, and Graphite Powders" to Canadian Metallurgical Quarterly.
- Research paper published “Effect of Process Parameters, Cryogenic Treatment, and SiC volume fraction on Wire EDM Machining of Al/SiC Composites”, Canadian Metallurgical Quarterly, Taylor & Francis Production, Article ID: YCMQ (2643552) 2026
- Research paper published “Experimental Investigations on Cutting Rate and Kerf Width on Wire-Electro Discharge Machining of Silicon Nitride – Titanium Nitride Ceramic Composite”, International Research Journal of Multidisciplinary Scope (IRJMS), Vol 5 (3), 131-140, 2024
- Research paper published “Effects of Ceramic Volume Fraction and Cryogenic Treatment on Kerf Width in WEDM of Al/SiCp Metal Matrix Composites”, International Research Journal of Multidisciplinary Scope (IRJMS), vol 5 (3), 152-161, 2024
- Research paper published “Investigation into Optimizing of Machining Parameters using RSM for Si<sub>3</sub>N<sub>4</sub>-TiN Ceramic Composites by WEDM”, Indian Journal of Science and Technology, Vol 17(14), 1464-1479, 2024

- Research paper published “Mathematical Modeling and Finite Element Analysis of Wire Electro-Discharge Machining of Ceramic Particulate Reinforced Metal Matrix Composite Material” at Indian Journal of Science and Technology, Vol 17(9), 852-862, 2024.
- Research paper “Numerical modeling of Electric Discharge Machining” presented at ICRAMME 3<sup>rd</sup> International conference on “Recent advances in Metallurgy and Mechanical Engineering”, 2024
- Research paper published “Wire electro discharge machining of metal matrix composites a review” at Procedia Manufacturing, Elsevier Publications, 20 (2018) 41-52.
- Research paper presented at iCMMD 2<sup>nd</sup> International Conference on Materials, Manufacturing and Design Engineering “Wire electro discharge machining of metal matrix composites a review”, 2017
- Research paper presented “PRODUCTION COST COMPARISON – ADDITIVE MANUFACTURING AND REVERSE ENGINEERING” at 3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME-2018), WCE, Sangli
- Research paper presented “Size Optimization of Cantilever Beam using Taguchi Method and Utility Concept validation by FEA” at National conference on Role of Engineers in Nation Building-2015: (NCRENB-2015-23)
- CAD Modelling of ADITYA TOKAMAK (ICDMM2014, ICDMM-26)
- Research Report is published at IPR Library “Ansys analysis of Limiters for ADITYA Tokamak”: IPR/RR-541/2012
- Paper published at International Journal of Mechanical and Industrial Engineering named “Ansys analysis of Limiters for ADITYA Tokamak” ISSN No. 2231 –6477, Vol-1, Issue-4, 2012

### **Books/ Book Chapter**

### **Papers in National /International Conference Proceedings**


“CAD modelling of ADITYA TOKAMAK” presented at ISET 2014:21:149-152

### **NPTEL Certification**

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance

### **Awards, Achievements and Recognition**

- Received funding from TATA Technologies Ltd., Ready Engineer & MASSIA of Rs.50,000/- for Industrial projects as Coordinator and Mentor.
  - Received certificate from DIPEX for guiding the project presentation in Idea Presentation Round of DIPEX-2025.
  - Received certificate from Dr. BAMU, for mentoring student in District level Avishkar 2025.
  - Appreciation certificate for industrial project at Magar Engineering Pvt Ltd
- Mentor for industrial projects at Liebherr India Private Limited, CSN



Date: 25/02/2026

Place: Chhatrapati Sambhaji Nagar