

# RESUME

1. Full Name: Dr. Deepakkumar Himmatrao Patil
2. Designation: Associate Professor
3. Department: Mechanical Engineering
4. Institute: Maharashtra Institute of Technology, Chhatrapati Sambhajinagar
5. Address and contact: E2/9, Vision City, Kanchanwadi, Chhatrapati Sambhajinagar, 431011 Mobile No:- 9529461603
6. Email: [Deepakkumar.patil@mit.asia](mailto:Deepakkumar.patil@mit.asia) , [deepakkpatil285@gmail.com](mailto:deepakkpatil285@gmail.com)
7. Date of Birth:02/09/1985



## 8. Educational Qualification:

Exam Passed	College Name	Board / University	Moth and Year of Passing	Marks Obtained (Out of Marks)	Perce ntage (%)	CGPA / SGPA	Area of Specialization
SSC	STTK Mahajan High school, Dhule	Nashik Board	June, 2001	503/750	67.06	NA	NA
Diploma	Govt. Poly. Dhule.	MSBTE, Mumbai	July 2004	906 (1300)	69.69	NA	Mechanical Engg
UG	DBATU, Lonere	DBATU, Lonere	May 2008	NA	NA	6.83	Mechanical Engg.
PG	DBATU, Lonere	DBATU, Lonere	February 2011	NA	NA	7.85	Manufacturing Engg.
Ph.D.	DBATU, Lonere	DBATU, Lonere	August 2017	NA	NA	8.25	Mechanical Engineering

## 9. Experience Details:

S.N.	Name of Organization	Designation	Duration	Remarks (Major Responsibilities Handled)
1	Maharashtra Institute of Technology	Associate Professor	03/02/2026 to till date	Teaching
2	CSMSS Chh. Shahu College of Engineering, Chhatrapati Sambhajinagar	Associate Professor	18/07/2016 to 02/02/2026	<ul style="list-style-type: none"><li>• Dept.R&amp;D Coordinator</li><li>• Institute NAAC Citeria 3 (Research &amp; Extension activities) Coordinator</li></ul>

				<ul style="list-style-type: none"> <li>Completed one funded research project and one is in process.</li> <li>Appointment as a reviewer for AICTE book translation scheme</li> <li>MESA and ISTE Faculty Advisor</li> <li>DBATU PG syllabus task force coordinator as per NEP 2020 for A&amp;R Program.</li> <li>LIC chairman</li> <li>Teacher Guardian (TG)</li> </ul>
3	DBATU, Lonere	Research	01/01/2013 to 17/07/2016	<ul style="list-style-type: none"> <li>R&amp;D equipment purchase, Centre of Excellence proposal writing,</li> <li>Worked on five MHRD-funded projects with ICT, Mumbai</li> <li>PhD work</li> </ul>
4	Army Institute of Technology, Pune	Teaching	18/07/2011 to 31/12/2012	<ul style="list-style-type: none"> <li>Teaching</li> <li>Lab In-Charge</li> <li>Student mentoring</li> </ul>
5	SSJCOE&T, Asangaon, Thane	Teaching	19/07/2010 to 17/07/2011	Teaching
6	IOPE, DBATU, Lonere	Teaching	27/07/2009 to 25/05/2010	Teaching
7	DBATU, Lonere	Teaching	September 2008 to June 2009	Teaching Assistant
8	<ul style="list-style-type: none"> <li>Arabian J. of Sci &amp; Engg</li> <li>SAGE Journal of Micromanufacturing</li> <li>WSPC Journal of Advanced Manufacturing Systems</li> </ul>	Research (Reviewer)		Research articles review

## 10. Research Publication:

S.N.	Titles of Paper Publication Name	Month and year of publication	Name of the journal where it is published (SCI Journals / UGC / AICTE and other)	Remarks
1.	AI-Driven Optimization and Strategic Use of Phase Change Materials for Smart Thermal Regulation	July 2025	International Journal of Environmental Sciences	Scopus (Q4)
2.	Investigation on surface topography in photochemical machining of Co-Cr L605 alloy using a new etchant for cell growth (Elsevier)	June 2025	Progress in Engineering Science	Scopus
3.	AI-Driven Optimization and Strategic Use of Phase Change Materials for Smart Thermal Regulation	June 2025	International Journal of Environmental Sciences	Scopus (Q4)
4.	Comparative performance analysis of PVD-coated tools in orthogonal turning of duplex stainless steel (SAGE)	October 2024	Journal of Micromanufacturing	(Q2), Scopus
5.	Study of the effect of PCM process parameters on geometry type, Ra, depth of etch, undercut, comparing FeCl <sub>3</sub> and CuCl <sub>2</sub> etchants on Monel 400 (Taylor & Francis)	April 2023	Advances in Materials and Processing Technologies	(Q2), ESCI, Scopus
6.	Multi-plant and multi-crop leaf disease detection and classification using deep neural networks, machine learning, image processing with precision agriculture: A review	May 2023	IEEE	Scopus
7.	Comparative study of FeCl <sub>3</sub> and CuCl <sub>2</sub> on geometrical features using photochemical machining of monel 400 (Elsevier)	April 2018	Procedia CIRP	Scopus
8.	Investigation on the effect of grain orientation in photochemical machining of Monel 400 (Taylor & Francis)	March 2017	Materials and Manufacturing Processes	(Q1) SCIE
9.	The effect of the rolling direction, temperature, and etching time on the photochemical machining of monel 400 microchannels (Wiley)	August 2016	Advances in Materials Science and Engineering	(Q2) Scopus

10.	Some investigations on surface texturing on Monel 400 using photochemical machining (ASME)	September 2015	ASME International Manufacturing Science and Engineering Conference	Scopus
11.	Some investigations in hard turning of AISI 4340 alloy steel in different cutting environments by CBN insert	August 2013	International Journal of Machining and Machinability of Materials	(Q3) Scopus
12.	Some Investigations on Photochemical Machining of Cobalt-Chromium L605 Alloy	December 2016	6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)	NA
13.	Chemical Machining of Monel	December 2016	ICCASP/ICMMD-2016. Advances in Intelligent Systems Research.	AICTE/ Google scholar
14.	Investigations on Finish Turning of AISI 4340 Steel in Different Cutting Environments by CBN Insert	October 2011	International Journal of Engineering Science and Technology	AICTE/UGC /Google scholar

#### 11. FDP Attended Details:

S.N.	Name of the Attended program	Month and year of participation	Type FDP out of above	Remarks
1.	Application of Digital Technologies in Manufacturing Environment	February 2025	Electronics & ICT Academies NIT Patna, NIT Tiruchirappalli	Two-week FDP
2.	AI mastery for Educators	May-June 2025	IIT Patna	Three-week FDP
3.	Training program on IPR	February 2025	IP Office Nagpur, India (Institute of National Importance)	One day
4.	Intellectual Property Rights	February-March 2025	AICTE-University	One week ATAL FDP
5.	Smart manufacturing - Scope and challenges in research	January 2022	AICTE-North Eastern Regional Institute of Science and Technology.	One week ATAL FDP
6.	Design Thinking for Societal Entrepreneurship	July 2021	AICTE-SVERI	One week ATAL FDP
7.	Personal Effectiveness	November 2020	AICTE-IIT Bhubaneshwar	One week ATAL FDP

8.	Inculcating Universal Human Values in Technical Education	August 2020	AICTE	One-week AICTE workshop
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### 12. MOOC Course details with E-certification by NPTEL- AICTE

S.N.	Name of the Attended program	Month and year participation	Duration of participation	Remarks
1.	Python for Data Science	Jan-Feb 2023	Two months	NPTEL-AICTE IIT Madras
2.	Rapid Manufacturing	September-December 2020	Four months	NPTEL-AICTE IIT Madras
3.	NBA Accreditation and Teaching-Learning in Engineering (NATE)	January-April 2020	Four months	NPTEL and IISc Bangalore
4.	Patent Drafting for Beginners	January-February 2021	Two months	NPTEL-AICTE IIT Madras
5.	Engineering Metrology	June-October 2019	Five months	NPTEL-AICTE IIT Madras

### 13. Industrial Training / Professional Training from starting (TEQIP / NITTTR / PMMMNMTT / IISC / UNIVERSITY / GOVT / DTE / BOTE / Other Institute)

S.N.	Name of the Training	Month and year participation	Type of Training out of above	Duration of Training	Remarks
1.	Laser Applications in Machining and Material Processing	March 2022	IIT Madras	One week	Centre for Continuing Education IITM
2.	SAP Production Planning	January 2018	Primus Techsystems Aurangabad	Four days	SAP, Primus Techsystems and CSMSS Aurangabad
3.	Machining Dynamics	October 2018	IIT Kanpur	One week	Centre for Development of Technical Education IIT Kanpur
4.	Machining of Advanced Material	December 2015	VNIT Nagpur	Two days	Department of Mechanical Engineering, VNIT Nagpur
5.	Inter-disciplinary aspects of Modeling of Manufacturing Processes	October 2013	IIT Bombay	One week	Continuing Education and Quality

					Improvement Programme, IITB
6.	Innovation and Intellectual Property Rights	June 2023	CSIR-IMMT Bhubaneswar	One week	CSIR-IMMT Bhubaneswar
7.	OBE for NEP Implementation	October 2023	NITTR & University	One week	NITTTR Chandigarh and DBATU, Lonere
8.	Statistics for Data Science and Business Analysis	February 2024	Udemy	One day	Udemy
9.	NAAC Accreditation Process	April 2021	UGC	Two week	Paramarsh Scheme UGC New Delhi

#### 14. Awards /Achievement:

Particulars (Names)	Month and year Awarded	Awarding Authority	Remarks
ONA Electroerosion S.A. award	April, 2018	ONA & University of the Basque Country, Bilbao, Spain	Best Research Paper award at 19 <sup>th</sup> CIRP Conference ISEM, Bilbao, Spain

#### 15. Books, Books Chapter published:

Name of the Book	Author No. (i.e. First / Second)	Month and year	Published in ----	Remarks
Dhatukam	First	October 2019	Dhatukam Udyam Prakashan	Industrial Magazine

#### 16. Patent Filed:

Name of the Patent	Author No. (i. e. First / Second)	Month and year of filing patent	Month and year of patent granted	Remarks
AI-Based Robotic System for Assistance in Tumor Removal and Method Thereof	Seventh	June, 2025	NA	Published

#### 17. Research Grant Received:

Name of the Grant received	Amount of Grant received Rs.	Received grant for research project authority (AICTE / UGC and other)	Remarks
TEQIP-III_2019	₹ 3,00,000 lakh	DBATU, Lonere	Completed
DBATU-VC-RPG_2023	₹ 3,00,000 lakh	DBATU, Lonere	In progress

#### 18. Research Projects:

Name of the Research Project	Duration of the Research Project	Grant Received authority for project (AICTE / UGC and other)	Remarks
Development of Laboratory-based Microreactor for Agricultural Application	Two Years	DBATU, Lonere	Completed
Development of continuous flow channel reactor	Two years	DBATU, Lonere	In progress

**19. Ph.D. Student Guidance:**

Research Scholar	Research Center	Title	Result Declaration	Remarks
Rohit Khake	DBATU, Lonere	Yet to finalize officially	NA	In Progress
Dayanand Hasbe	DBATU, Lonere	Course Work in progress	NA	In Progress
Dhananjay Narmala	DBATU, Lonere	Course Work in progress	NA	In Progress

**20. Additional details:**

- Upskilled in Python, Data analysis, Tableau, Power BI and Excel.
- Served as the PG syllabus coordinator for DBATU, Lonere under NEP 2020 for A&R programs.

Place: Chhatrapati Sambhajinagar

Date: 07/02/2026