

Name of Teaching Staff : **Dr Pradip Padmakar Patil**

Designation : Associate Professor

Department : Mechanical Engineering

Date of Joining the : 15-01-2015

Institution

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Google Scholar Link : <https://scholar.google.com/citations?user=JKPnaF4AAAAJ&hl=en>

Researchgate Link: <https://www.researchgate.net/profile/Pradip-Patil-12/research>

ORCID [Pradip Patil \(0000-0002-5190-1154\) - ORCID](https://orcid.org/0000-0002-5190-1154)

Publons Researcher ID :

Qualifications with Class / Grade : **PhD. Production Engineering**, Veermata Jijabai Technological Institute (VJTI), Mumbai, India. February 2014.

**M.E. Production Engineering**, Fr C.R. COE, Mumbai University, India. May 2007. First class.

**B.E. Production Engineering**, S.G.G.S. College of Engineering and Technology, Nanded. May 1998. First class with Distinction.

Total Experience in Years : **Associate Professor in Mechanical Engineering**, SIES Graduate School of Technology (July 2017-Jan 2025)

**Associate Professor and Head of the Mechanical Engineering Department**, SIES Graduate School of Technology (July 2015- October 2017)

**Assistant Professor**, SIES Graduate School of Technology (July 2007-June 2015)

**Lecturer**, Agnel Polytechnic, Navi Mumbai (June 2002-June 2007)

**Software Programmer**, Isha Infotech Pvt.Ltd., Mumbai (August 2001-June 2002)

**Lecturer**, Atharva College of Engineering, Mumbai (June 1999-July 2001)

- Papers Published in Journal: :
1. **Patil, P.P**, Narkhede, B.E., Akarte, M.M., 2012. An Exploratory Study of Manufacturing Strategy of Packaging Product Manufacturing Companies in India. *International Journal for Quality Research* 6(3),233-249. [Link](#)
  2. Gandhare, B.S., Akarte, M.M.,& **Patil,P.P.**(2018). Maintenance performance measurement—a case of the sugar industry. *Journal of Quality in Maintenance Engineering*.[Link](#)
  3. **Patil,P.P**,Narkhede,B.E.,Akarte,M.M.,2012.Impact of Process Technology on Manufacturing Outputs in an Indian Packaging Product Manufacturing Company: A Case Study. *Performance Improvement*,51(7),14-20. [International Society for Performance Improvement Published online in Wiley Online Library- [wileyonlinelibrary.com](http://wileyonlinelibrary.com), indexed in Web of Science][Link](#)
  4. **Patil, P.P**, Narkhede,B.E., Akarte,M.M.,2015, Pattern of manufacturing

- strategy implementation in Indian product manufacturing Companies. *International Journal of Indian Culture and Business Management*, 10(2),157-177.<https://www.inderscienceonline.com/doi/10.1504/IJICBM.2015.068162>.
5. Narkhede, B.E., **Patil, P.P**, Akarte, M.M.,2016, Manufacturing strategy implementation and performance benchmarking in Indian packaging product manufacturing companies, *International Journal of Competitiveness*,1(1),33-52.[Link](#)
  6. Patil, V. P., **Patil, P. P.**, & Ingale, N. E. (2019, March). Experimental Investigations of Optimum Sheet Metal Blanking Clearance for IS2062HR Steel Using Artificial Neural Network(ANN).In *2019 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference(IEMECON)*(pp.12- 16).[Link](#)
  7. **Patil P.P.**, Patil V.P., Ramaswamy R. (2020) Prediction of Optimum Sheet Metal Blanking Clearance for IS513CR Steel Using Artificial Neural Network. Proceedings of International Conference on Intelligent Manufacturing and Automation. *Lecture Notes in Mechanical Engineering*. Springer, Singapore.  
[https://link.springer.com/chapter/10.1007/978-981-15-4485-9\\_23](https://link.springer.com/chapter/10.1007/978-981-15-4485-9_23).
  - P., Patil, V.**, Date, H.,& Nehete, R.(2021, January).Investigation of Blanking Clearance for IS277GI by Artificial Neural Network(ANN). .2021, *4th Biennial International Conference on Nascent Technologies in Engineering(ICNTE)*,(pp.1-6).  
<https://ieeexplore.ieee.org/abstract/document/9487656>
  8. Patil, V., **Patil, P.**, Ingale, N., & Date, H. (2021, December). Methodology for Identification of Quality of clean-Cut surface for IS2062HR sheet metal blanking using Random Forest. In *2021 5th Conference on Information and Communication Technology (CICT)*(pp.1-5).  
<https://ieeexplore.ieee.org/abstract/document/9672340>
  9. Vishnu, P. A., Patil, S., Kannamvar, R. R., & **Patil, P.** (2021). An Approach to Improvement in Heat Flow Analysis of Continuously Variable Transmission (CVT).*International Journal of Engineering and Applied Physics*, 1(3),216-225. <https://ijeap.org/ijeap/article/view/40>
  10. Nehete, R., **Patil, P.P.**, & Jangam, S.T.(2021).Root Cause Analysis of Failure of Suspension Spring Used In Fiat Bogie Of Indian Railways. *Industrial Engineering Journal (ISSN-0970-2555)*,14(06), 37-42.
  11. Nehete, R., **Patil, P.P.**, & Jangam, S.T.(2021).Investigation Of Failure of Double Suspension Spring Of Railway Coach, *Industrial Engineering Journal(ISSN-0970-2555)*,15(01),10-16.
  12. Rishab R.Kannamvar, Onkar V.Repe, **Pradip P.Patil**,Nitin Shetty,Yash R.Maurya,"Condition Monitoring and Diagnosis of an IC Engine using Vibration Recognition ", *International Journal of Emerging Technologies and Innovative Research*(www.jetir.org|UGC Approved), ISSN:2349-5162, Vol.8, Issue 10, page no. pp84-92, October-2021, <http://www.jetir.org/papers/JETIRFD06009.pdf>
  13. Anirudh Kashivishvanathan, Rikin Nanote, Saurab Rao, Ritwik Ashtamoorthy, **Pradip Patil**, Rupendra Nehete," Developing a Novel Approach for Crack detection through frequency analysis", *International*

*Journal of Emerging Technologies and Innovative Research*(www.jetir.org|UGCApproved),ISSN:2349-5162,Vol.8,Issue10,pageno.pp42-52,October-2021,Availableat:<http://www.jetir.org/papers/JETIRFD06005.pdf>

14. Disha Budage, Prithviraj Gupta, Hariprasad Iyer, Gurinder Saini, **Pradip Patil**, “Dynamic Prosthetic Leg”, *International Journal of Emerging Technologies and Innovative Research*, Issue10,pp53-59, October-2021,(www.jetir.org|UGCApproved),ISSN:2349-5162,Vol.8, <http://www.jetir.org/papers/JETIRFD06006.pdf>
15. Patil, P., Patil, V. (2023). Investigation of Quality of Clean-Cut Surface for Sheet Metal Blanking Using Decision Tree. In: Vasudevan, H., Kottur, V.K.N., Raina, A.A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. *Lecture Notes in Mechanical Engineering*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-7971-2\\_10](https://doi.org/10.1007/978-981-19-7971-2_10). [https://link.springer.com/chapter/10.1007/978-981-19-7971-2\\_10](https://link.springer.com/chapter/10.1007/978-981-19-7971-2_10)

#### Papers Presented in Conferences

1. Empowering Gen-Z Learners in Management Education: A Digital Informal Learning Framework for Academic Excellence, at ACBSP Region 10 conference, 2025.
2. Optimizing Sheet Metal Forming: Leveraging machine learning to minimize material wastage, POMS India International Conference, IIIM Ranchi, 2024.
3. Investigating the impact of smart manufacturing technologies on performance for digital transformation, 4th International Conference on Innovation, Technology and Sustainability: Shaping the future of Business and Society, 2023
4. Methodology for Identification of Quality of clean-cut surface for IS2062HR sheet metal blanking using Random Forest.5<sup>th</sup> Conference on Information and Communication Technology (CICT), 2021 at IIIT Kurnool, India.
5. Identification of Quality of clean-cut surface for IS2062HR sheet metal blanking with the Random Forest technique at IEEE Conference on Technologies for Future Cities, 2021.
6. Experimental Investigation of Optimum Sheet Metal Blanking clearance for IS2062HR steel using ANN The 9<sup>th</sup> Annual Information Technology and Microelectronics Conference, 2019.
7. Optimization of sheet metal blanking clearance using Artificial Neural Network. Nationalconference.Fr. C.R College of Engineering, Mumbai (India), 2007.
8. Flexibility, a subset of Manufacturing Strategy. The Ninth Global Conference on Flexible SystemsManagement, NITIE, Mumbai (India), 2009.
9. Manufacturing Flexibility: Issues in Modelling Real Environment, International Conference on Industrial Engineering and Operations Management-ICIEOM,2017.

Area of Specialization

Sheet metal forming, Manufacturing Systems and Strategies

PhD Guide ? Give field & University

: **Field:** **NIL**  
**University:**

PhDs / Projects Guided	:	<b><u>PhDs:</u></b>	<b>NIL</b>
		<b><u>Projects at Masters level:</u></b>	<b>NIL</b>
Books Published / IPRs / Patents	:	Books	Assessing the existence of manufacturing strategy and its impact: On decision making in manufacturing levers, manufacturing outputs and business performance, LAP LAMBERT Academic Publishing, ISBN- 6139858674, 2019.
Patents		Patent/Design registrations	<ol style="list-style-type: none"> <li>1. <b><i>Telescopic shaft for Four-Wheel Terrain Vehicle</i></b>, Design No: 351656-001, Date: 16/12/2022</li> <li>2. <b><i>Solar Powered Refrigerator</i></b>, Design No: 374198-001, Date:11/01/2024.</li> </ol>
Industry Consultancy			<b>Robotic System development</b> for Greenox E-Library Pvt Ltd, 2024.
Professional Memberships	:		<ol style="list-style-type: none"> <li>1. Member of the Indian Institute of Industrial Engineering (<b>IIIE</b>). LM9102</li> <li>2. Member of the Belapur Chapter of the Indian Institute of Industrial Engineering (<b>IIIE</b>).</li> <li>3. Member of the Indian Society for Technical Education (<b>ISTE</b>).</li> </ol>
Grants fetched	:	Minor Research Grant (University of Mumbai)	A grant of Rs. 20000 from <b>Mumbai University</b> for the topic: Fault diagnosis of bearing under static loading for RUL during the year 2019-20.
Interaction with Professional Institutions	:	<b>Guest Lectures:</b>	<ol style="list-style-type: none"> <li>1. Invited as Resource personal on “Artificial Intelligence in Manufacturing” at Department of Mechanical Engineering, Jain(Deemed-to-be University), Begaluru on 4th February, 2022.</li> </ol>

<b>Other Achievements and Responsibilities:</b>	<ul style="list-style-type: none"> <li>• Session chair and keynote speaker for an international conference, World Academy of Science, Engineering and Technology, 2017.</li> <li>• Reviewer for Journal: International Journal on Interactive Design and Manufacturing, OPSEARCH, Springer Nature.</li> <li>• Mentored students at the Final round of Avishkar at Mumbai University on the topic “Delta Robot for Pick and Place Operation for Waste Management”, December 2023 and “Dynamic Prosthetic Leg”, 2021.</li> <li>• Mentored students at the Anveshana on the topic “Automated Prosthetic Leg”, 2021, winning a consolation prize.</li> <li>• Recognised a contribution several times by NPTEL as an active single point of contact (SPOC) for the Institute.</li> <li>• Recognized by NPTEL as Mentor ("Robotics") for guiding students at the Institute.</li> <li>• Conducted a training program for BPCL employees on ‘Applications of hydraulics and pneumatics, 2003.</li> <li>• Visiting faculty for the course on ‘Manufacturing Strategy’ for B.Tech. (Production Engineering) at VJTI, Mumbai.</li> <li>• Visiting faculty for the course on ‘Manufacturing Strategy’ for M.Tech. (Project Management) at VJTI, Mumbai.</li> <li>• Chairman for Syllabus preparation of Engineering Mechanics and Member of Result Moderation Committee at Mumbai University.</li> <li>• Invited for Judging a 17<sup>th</sup> and 19<sup>th</sup> Avishkar Inter-Collegiate Research Convention(Zonal Round), organized by Mumbai University.</li> <li>• Invited as an Expert for External Academic Audit for the Mechanical Engineering Department, A.C. Patil College of Engineering, Navi Mumbai, 2018.</li> </ul>
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**Subjects Taught**

**UG Level:** Engineering Mechanics, Engineering Drawing, Kinematics of Machinery, Mechanical Vibration, Product Design and Development, Industrial Engineering, Operations Management, Robotics

**PG Level:** Project Management, Operations Management

Projects Guided : **UG Level:** 55 Projects

**PG Level:** NIL

Recommended Students for  
Higher Education

**Name of the Student**      **University/Industry**

Various Universities across USA, Canada, and Germany, UK  
and Australia.  
More than 60 students for  
PG level

Institute/Department  
Responsibility Handled:

1. In charge of criterion 2 for NBA and criteria 3 for NAAC.
2. Member of IQAC cell.
3. Member of Innovation Centre / Entrepreneurship Cell
4. In charge of Industry-Institute Interaction

Pedagogy Development

1. Robot system: <https://youtu.be/KFYRB0C74oA?si=XgIIApQaOu3gUBgU>
2. D-H parameters of robot:  
<https://youtu.be/MLQHjfumBr8?si=c5IJalr7Kbpq-qQN>
3. Defining Position of Robot:  
<https://youtu.be/RXHpeOBp0v0?si=LFOQWUiuTluMsFNO>