

# Curriculum Vitae

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Dr. Bhushan Tryambak Patil  
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Mechanical Engineering Dept  
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## **Brief Summary: -**

Highest Qualification-Ph.D. (Technology) in Production Engineering

Total University Approved Teaching Experience: -25 Years (Out of which 6 Years is at Professor level)

Number of research publications in SCI journals / UGC / AICTE approved list of journals=16

No of Ph D students Guided=2

No of Ongoing Ph D students=6

Number of IPR (Design Patents) =4

Administrative Responsibilities Handled at Institute Level/University Level: -

- i) At Fr. CRCE Bandra-Dean (Research and Development), Member of Governing Council, Member of Executive Committee, Member of College Development Committee, IPR cell coordinator, Member of Internal Quality Assurance Cell, Conference Chair for International Conference ICAC3.
- ii) Chairman of Indian Institution of Industrial Engineering, Mumbai Chapter for more than 2 Years
- iii) Secretary of Indian Institution of Industrial Engineering, Mumbai Chapter for more than 3 Years
- iv) Working as Vice Chancellors Nominee for Board of Studies in Mechanical Engineering by University of Mumbai at Autonomous College-Thakur College of Engineering and Technology, Mumbai

Other Credentials: -

- i) Fellow Member of Indian Institution of Industrial Engineering
- ii) Recipient of 'Special Award' from Indian Institution of Industrial Engineering for continuous innovative development of Industrial Engineering in its operations and significant encouragement to the industries in India
- iii) Member of selection committee for selection of candidates for admission to Ph.D. (Technology) program in mechanical engineering at various institutes in Mumbai
- iv) Member of selection committee for faculty recruitment at various institutes in Mumbai
- v) Guest faculty to teach a full course on Operations Planning under Uncertainty for post graduate program at NITIE, Mumbai

## Qualifications:

Level	Details	Institute/University	Month - Year	Marks (%)	Grade/Division/Other Remarks
Doctorate	Ph.D.(Technology) in Production Engineering	V.J.T.I.,Mumbai (Autonomous Institute Affiliated to Mumbai University)	March-2014	-	-
Post Graduation	M.E.(Production With Specialization In Manufacturing Engineering)	Fr.C.R.C.E.,Bandra (Mumbai University)	March - 2006	76.81	First Class with Distinction
Graduation	B.E.(Production Engineering)	S.G.G.S.Institute of Engineering &Tecnology,Nanded (Dr.Babasaheb Ambedkar Marathwada University,Aurangabad )	July - 1996	68.13	First Class with Distinction
12th Class	H.S.S.C.	Amaravati Divisional Board	March - 1992	84.00	First Class with Distinction
10th Class	S.S.C	Nagpur Divisional Board	March - 1990	88.57	First Class with Distinction <b>SSC Merit holder – 25<sup>th</sup></b> in Nagpur Divisional Board

## Experience

Summary- Total University Approved Teaching Experience: -25 Years (Out of which 6 Years is at Professor level)

Experience Type	Organization	Designation	Year From - To	Approval Status(University of Mumbai)	Total Experience
Teaching	Lokmanya Tilak College Of Engineering Navi Mumbai	Lecturer	1997-2010	Approved by University of Mumbai	13.0 yrs.
Teaching	Lokmanya Tilak College Of Engineering Navi Mumbai	Assistant Professor	2010-2014	Approved by University of Mumbai	4 Years
Teaching	Fr.Conceicao Rodrigues College of Engineering,Bandra	Assistant Professor	2014-2016	Approved by University of Mumbai	2 yrs
Teaching	Fr.Conceicao Rodrigues College of Engineering,Bandra	Professor	02-05-2016 : Till today	Approved by University of Mumbai	From 02-05-2016 till today

- Approved teacher of University of Mumbai for Ph.D. (Tech) degree in Mechanical Engineering

**Guidance to Ph.D. Students: -**

- Two Student Completed
- Six Students are pursuing Ph.D.

**Guidance to Students at Master's Level: -**

- Nine Students Completed

**List of Publications in Journals: -**

*Total Number of Publications in research publications in SCI journals / UGC / AICTE approved list of journals =16*

<b>Sr No</b>	<b>Details</b>	<b>Indexing</b>
1	Singh, D.S, Joshi, K.J & <b>Patil, B. T.</b> Comparative Economic Analysis of Injection-Moulded Component with Conventional and Conformal Cooling Channels. J. Inst. Eng. India Ser. C 103, 307–317 (2022). <a href="https://doi.org/10.1007/s40032-021-00778-5">https://doi.org/10.1007/s40032-021-00778-5</a>	Scopus Indexed/UGC Approved
2	Subramanian, G., <b>Patil, B.T.</b> and Gardas, B.B. (2021), "Evaluation of enablers of cloud technology to boost industry 4.0 adoption in the manufacturing micro, small and medium enterprises", Journal of Modelling in Management, Vol. 16 No. 3, pp. 944-962. <a href="https://doi.org/10.1108/JM2-08-2020-0207">https://doi.org/10.1108/JM2-08-2020-0207</a>	SCI/Scopus Indexed/UGC Approved
3	Joshi, K.J., & <b>Patil, B. T.</b> (2022). Automated inspection of spur gears using machine vision approach. International Journal of Computational Vision and Robotics, 13(1), 38–51 <a href="https://doi.org/10.1504/IJCVR.2023.127307">https://doi.org/10.1504/IJCVR.2023.127307</a>	Scopus Indexed/UGC Approved
4	Deshmukh S.P., <b>Patil B.T.</b> ,Joshi K.N.,Gaonkar C.,Pallan P.,Bhatkar S.(2022), , A Novel Method for IoT Based Smart Traffic System, Industrial Engineering Journal, June 2022,Vol.XV,Issue 6, pp 11-16 <b>(UGC Approved Journal as per UGC-Care List)</b>	UGC Approved Journal as per UGC-Care List)
5	Joshi, K., & <b>Patil, B.T.</b> (2020). Performance evaluation of various texture analysis techniques for machine vision-based characterization of machined surfaces. International Journal of Computational Vision and Robotics, 10(3), 242-259. <a href="https://doi.org/10.1504/IJCVR.2020.107249">https://doi.org/10.1504/IJCVR.2020.107249</a>	Scopus Indexed/UGC Approved
6	Joshi K. N., <b>Patil B. T.</b> (2020) Multivariate statistical process monitoring and control of machining process using principal components-based	Scopus Indexed/UGC Approved

	Hotelling T2 charts: a machine vision approach, <i>International Journal of Productivity and Quality Management</i> , Vol 35, No.1, pp.40-56 <a href="https://org/10.1504/IJPQM.2022.120709/doi">https://org/10.1504/IJPQM.2022.120709/doi</a> .	
7	Bhise, D.K., <b>Patil, B.T.</b> , Shaikh, V.A., 2021. Air Assisted Atomization Characterization of Biodegradable Fluid Using Microlubrication Technique. <i>MSF</i> 1019, 211–217. <a href="https://doi.org/10.4028/www.scientific.net/msf.1019.211">https://doi.org/10.4028/www.scientific.net/msf.1019.211</a>	Scopus Indexed/UGC Approved
8	Singraur, D. S., <b>Patil, B. T.</b> , & Shaikh, V. A. (2021). Defect Minimization of an Injection Molded Plastic Component Using Conformal Cooling Channels. <i>Materials Science Forum</i> , 1019, 205–210. <a href="https://doi.org/10.4028/www.scientific.net/msf.1019.205">https://doi.org/10.4028/www.scientific.net/msf.1019.205</a>	Scopus Indexed/UGC Approved
9	Veerabhadrarao, M., <b>Patil, B. T.</b> , Shaikh, V. A., & Sudhakar, D. S. S. (2021). Contribution of Factors such as Machining Parameters, MQL Nozzle Orientation (Angle & Distance) and MQL Nano-Fluid Type on Surface Finish of Turned Steel Work-Pieces Using DOE Approach. <i>Materials Science Forum</i> , 1019, 181–193. <a href="https://doi.org/10.4028/www.scientific.net/msf.1019.181">https://doi.org/10.4028/www.scientific.net/msf.1019.181</a>	Scopus Indexed/UGC Approved
10	Joshi, K.N., <b>Patil, B.T.</b> Effect of Illumination Systems on Statistical Texture Parameters Based Clustering and Discrimination of Machined Surfaces Using Machine Vision. <i>MAPAN</i> 34, 197–205 (2019). <b>(by Springer Publications)</b> <a href="https://doi.org/10.1007/s12647-018-0279-z">https://doi.org/10.1007/s12647-018-0279-z</a>	SCI/Scopus Indexed/UGC Approved
11	Joshi K. N., <b>Patil B. T.</b> , A Review of Machine Vision based Evaluation of Surface Roughness using Texture Analysis Techniques, <i>Industrial Engineering Journal</i> , Nov 2018, pp 22-27 <b>(UGC Approved Journal as per UGC-Care List)</b>	UGC Approved Journal as per UGC-Care List)
12	Deshmukh, S. P., Deshmukh, P. D., <b>Patil, B. T.</b> , &Thampi, G. T. (2019). Exploring the factors to make e-commerce and m-commerce ubiquitous and pervasive to improve national productivity of India. <i>International Journal of Productivity and Quality Management</i> , 28(4), 457-496. <a href="https://doi.org/10.1504/IJPQM.2019.103691">https://doi.org/10.1504/IJPQM.2019.103691</a>	Scopus Indexed/UGC Approved
13	Bhise, Dipali., <b>Patil, B, T.</b> , and Shaikh, V. A., (2019), Micro lubrication: A way to enhance the machining operation, <i>Industrial Engineering Journal</i> . Vol. 12 No. 4, ISSN: 2581-4915.	UGC Approved Journal as per UGC-Care List)
14	<b>Patil, Bhushan</b> & Subramanian, Geetha. (2020). An Investigation into Factors Influencing System Quality for MSME with Collaborative Manufacturing, Cloud technologies and Industry 4.0. <i>Industrial Engineering Journal</i> . 13. ISSN: 2581-4915	UGC Approved Journal as per UGC-Care List)

15	Singh S., Deepika, <b>Patil B.T.</b> (2019) Advancements in Design And Fabrication of Conformal Cooling Channels for Improvement in Plastic Injection Molding Process, Industrial Engineering Journal (2019), Volume 12 (5),	UGC Approved Journal as per UGC-Care List)
16	<b>Patil B.T.</b> , Bhandarkar B.M. ,Narkhede B.E.(2013), “Cloud Computing: Emerging Enterprise Resource Planning Solution for Small and Medium Enterprises”, Industrial Engineering Journal, Vol.6, Issue No.6, June 2013, pp 20-23(ISSN 0970-255)	UGC Approved Journal as per UGC-Care List)
17	Narkhede, B. E., Raut, R. D., <b>Patil, B. T.</b> and Mahajan, S. K. (2013), Performance Improvement in Small and Medium-Sized Enterprises Due to Information Systems Implementation. Perf. Improv., 52: 24–32 <a href="https://doi.org/10.1002/pfi.21385">https://doi.org/10.1002/pfi.21385</a>	

#### Conference Publications/Presentations: -

Sr No	Details	Indexing
1	Joshi K.N., <b>Patil B.T.</b> (2019) A Perspective of Integrated Machine Vision Based-Multivariate Statistical Process Control. In: Vasudevan H., Kottur V., Raina A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-13-2490-1_42">https://doi.org/10.1007/978-981-13-2490-1_42</a>  <i>(This paper was presented at International Conference on Intelligent Manufacturing and Automation (ICIMA 2018), 2018, Mumbai, India. This Conference was organised by D J Sanghvi College of Engineering, VileParle, Mumbai, Maharashtra, India Date of Conference- 20 and 21 July 2018)</i>	Scopus Indexed
2	Ketaki Joshi, <b>Bhushan Patil</b> (2020),Prediction of Surface Roughness by Machine Vision using Principal Components based Regression Analysis, Procedia Computer Science, Volume 167,2020,Pages 382-391, ISSN 1877-0509, <a href="https://doi.org/10.1016/j.procs.2020.03.242">https://doi.org/10.1016/j.procs.2020.03.242</a>	Scopus Indexed
3	Bhise, D. K., <b>Patil, B. T.</b> , Shaikh, V. A., & Deshmukh, S. P. (2020). Investigating the microlubrication flow inside the nozzle using computational fluid dynamics. Materials Today: Proceedings,27, 492-496. <a href="https://doi.org/10.1016/j.matpr.2019.11.290">https://doi.org/10.1016/j.matpr.2019.11.290</a> <i>(This paper was presented at First International Conference on Recent Advances in Materials and Manufacturing ICRAMM, Sept 2019, Belagavi,</i>	Scopus Indexed

	<i>India.This Conference was organised by KLE Dr. KLE MS Sheshgiri College of Engineering &amp; Technology Balgaum, Karnataka, India Date of Conference- 13-09-2019-14-09-2019)</i>	
4	Pashte, S., Wagle, K., Agrawal, S., Sudhakar, D. S. S., <b>Patil, B.T.</b> , & Singraur, D. S. (2020, June). Simulation and optimization for a plastic component. In IOP Conference Series: Materials Science and Engineering (Vol. 872, No. 1, p. 012072). IOP Publishing. doi:10.1088/1757-899X/872/1/012072	Scopus Indexed
5	Prince W Dabreo, Ketaki N Joshi, <b>Bhushan T Patil</b> and Meera B Kokate (2020) Machine vision based interferometry for measurement of flatness error in micro and nano manufacturing. IOP Conf. Series: Materials Science and Engineering, 872 (2020) 012066 <a href="https://doi:10.1088/1757-899X/872/1/012066">https://doi:10.1088/1757-899X/872/1/012066</a>	Scopus Indexed
6	Khatu, R.D., <b>Patil, B.T.</b> , Bhise, D.K. and Vaishnav, H.B., 2022. Design of a fixture for wire-cut EDM: A generic approach. Materials Today: Proceedings, 49, pp.2034-204	Scopus Indexed
7	Meera B. Kokate, <b>Bhushan T. Patil</b> , and Geetha Subramanian (2020) Machine Learning as a Smart Manufacturing Tool. In: Vasudevan H., Kottur V., Raina A. (eds) Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-15-4485-9_37">https://doi.org/10.1007/978-981-15-4485-9_37</a>	Scopus Indexed
8	G. Subramanian, <b>B. T. Patil</b> and M. Kokate, "Review of Modern Technologies in Manufacturing Sector," 2019 International Conference on Advances in Computing, Communication and Control (ICAC3), Mumbai, India, 2019, pp. 1-6, doi: 10.1109/ICAC347590.2019.9036835.	Scopus Indexed
9	Joshi K., <b>Patil B.T</b> (2020) Evaluation of Surface Roughness by Machine Vision Using Neural Networks Approach. In: Parwani A., Ramkumar P. (eds) Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-32-9971-9_3">https://doi.org/10.1007/978-981-32-9971-9_3</a> (This paper was presented at International Conference on Recent Advances in Mechanical Infrastructure, Ahmedabad, India.This Conference was organised by Institute of Infrastructure, Technology, Research and Management, Ahmedabad, Gujrat, India Date of Conference- 20-21 April 2019)	
10	Joshi K. N., <b>Patil B. T.</b> (2018), Recent Developments in Quality Inspection of Spur Gears using Machine Vision Technology, International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIIE, Bhubaneshwar in association with SOA, (ICIEIND– 2018) ( <i>This paper was presented at International Conference on Manufacturing and Industrial Engineering (ICMIE-2017), Aurangabad, Maharashtra, India.This Conference was organised by MGM's Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra, India in association with IIIIE Aurangabad chapter Date of Conference- 14-16 September 2017</i> )	-

11	<p>Joshi K. N., <b>Patil B. T.</b>, (2017), A Review of Machine Vision based Evaluation of Surface Roughness using Texture Analysis Techniques, In International Conference on Manufacturing and Industrial Engineering – 2017, Organized by Indian Institution of Industrial Engineering, (ICMIE-2017)</p> <p><i>(This paper was presented at International Conference on Manufacturing and Industrial Engineering (ICMIE-2017), Aurangabad, Maharashtra, India. This Conference was organised by MGM's Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra, India in association with IIIE Aurangabad chapter Date of Conference- 14-16 September 2017)</i></p>	
12	<p>Rakesh A. Shinde, <b>Bhushan T. Patil</b>, Ketaki N. Joshi, Optimization of Tube Hydroforming Process (without Axial Feed) by Using FEA Simulations, Procedia Technology, Volume 23, 2016, Pages 398-405, ISSN 2212-0173, <a href="https://doi.org/10.1016/j.protcy.2016.03.043">https://doi.org/10.1016/j.protcy.2016.03.043</a>.</p> <p><i>(This paper was presented at 3rd International Conference on Innovations in Automation and Mechatronics Engineering 2016, ICIAME 2016 05-06 February, 2016 organized by G H Patel College of Engineering &amp; Technology, Vallabh Vidyanagar 388120)</i></p>	
13	<p>Bhise D.K., <b>Patil B. T.</b>, Shaikh V (2018) A Review of Micro Lubrication for Metal Working Process, International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneswar in association with SOA, ICIEIND 2018.</p> <p><i>(This paper was presented in International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneswar Date of Conference- 27-09-2018-30-09-2018)</i></p>	
14	<p>Deepika Singh Singraur, <b>Dr. Bhushan T. Patil</b>, Yogesh Rampariya (2018), Advancements in Thermoplastic Injection Molding System with Conformally Cooled Channels, International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneswar in association with SOA, (ICIEIND– 2018)</p> <p><i>(This paper was presented in International Conference on Role of Industrial Engineering in Industry 4.0 Paradigm, organized by IIIE, Bhubaneswar Date of Conference- 27-09-2018-30-09-2018)</i></p>	
15	<p>VeeraBhadraRao M., <b>Patil B.T.</b>, Shaikh V.A., Sudhakar D.S.S. (2020) Experimental Performance Evaluation of Mist Cooling Using Biodegradable Coconut Oil in Turning of EN24 Steel in Minimization of Tool Wear, Surface Roughness, and Chip Thickness. In: Parwani A., Ramkumar P. (eds) Recent Advances in Mechanical Infrastructure. Lecture Notes in Intelligent Transportation and Infrastructure. <b>Springer</b>, Singapore doi:<a href="https://doi.org/10.1007/978-981-32-9971-9_1">https://doi.org/10.1007/978-981-32-9971-9_1</a></p>	
16	<p><b>Patil B.T.</b>, Narkhede B.E., Mahajan S.K. (2012), “Cloud Computing: Emerging Enterprise Resource Planning Solution for Small and Medium Enterprises”, 1st International Conference on Best Practices in Supply Chain Management (BPSCM), organized by Siksha ‘O’ Anusandhan University, Bhubaneswar, 22-23 November 2012</p>	



17	<b>Patil B.T.</b> , NarkhedeB.E.,Satao S.M.,D.Chandrababu(2010), “Analysis of Factors Contributing to Successful Implementation of ERP ,”International Conference on Advances in Industrial Engineering Applications,ICAIEA 2010,organized by Anna University,Chennai,6-8 January 2010	
18	Joshi K.N., <b>Patil B. T.</b> , (2018) Machine Vision based Multivariate Statistical Process Monitoring: An Efficient Tool for Quality Control and Management, 3rd National Conference on Industrial Engineering and Technology Management, NCIETM 2018, NITIE	
19	D. S. Singraur , <b>B. T. Patil</b> , Y. Rampariya., (2018) “Advancements in Design And Fabrication of Conformal Cooling Channels for Improvement in Plastic Injection Molding Process”, 3rd National Conference on Industrial Engineering and Technology Management, NCIETM 2018, NITIE	
20	<b>Patil B.T.</b> , NarkhedeB.E.,Mahajan S.K.(2010), “Review of Critical Success (CSF) models for Improving the Performance of Enterprise Resource Planning”,First National Conference on Product Engineering(NCPE-2010),organized by Shri Guru Gobind Singhji Institute of Engineering &Technology,Nanded, 3-4 December 2010	
21	<b>Patil B.T.</b> , NarkhedeB.E.,Mahajan S.K.(2010), “Factors affecting the Performance of Organization through Enterprise Resource Planning”, National Conference and 52 <sup>nd</sup> convention of Industrial Engineering, organized by Indian Institution of Industrial Engineering and Bhilai Steel Plant ,Bhilai, 26-28 November 2010.	

### **Book Chapter**

Joshi K.N., **Patil B.T.**, Vaishnav H.B. (2020) Principal Components Based Multivariate Statistical Process Monitoring of Machining Process Using Machine Vision Approach. In: Patnaik S. (eds) New Paradigm of Industry 4.0. Studies in Big Data, vol 64. Springer, Cham(**Springer Book Series**) (**Invited by Editor in Chief**)

DOI:[https://doi.org/10.1007/978-3-030-25778-1\\_7](https://doi.org/10.1007/978-3-030-25778-1_7)

### **Patent Granted**

#### **Design Patents:**

1. Article for Image Acquisition and Measurement of Surface and Dimensional Quality (Design Patent accepted and Published, Journal No: 29/2019 and Journal Date: 19/07/2019 Application Number: 296740 dated 18th August 2017)
2. Football Thrower (Design Patent Accepted and Published, Journal No: 03/2023 and Journal Date: 20/01/2023, Application Number: 375204-001 dated 7/12/2022)
3. Article for Printing 3D Parts using Electrochemical Deposition (Design Patent Accepted, Application Number: 374640-001 dated 25/11/2022)



4. Projector Image Capturing Device For Measurement Of Geometry Of Gears (Design Patent Accepted and Published, Journal No: 34/2015 and Journal Date: 21/08/2015, Application Number: 267711 dated 26/11/2014).

**Seminar /Workshops/CEP attended/Organized:-**

Seminars/Workshops/CEP Attended/Organized							
Type	Attended/Organized	Title	Offered By	Contribution As	Level	Organized By	Date
STTP	Attended	Project Management	MCT's Rajiv Gandhi Institute of Technology	None	National	MCT's Rajiv Gandhi Institute of Technology ,Mumbai	08-05-2006 : 12-05-2006
Seminar	Organized	SIX SIGMA	None	Resource Person	National	MCT's Rajiv Gandhi Institute Of Technology, Mumbai	08-05-2006 : 12-05-2006
STTP	Attended	Mechatronics: A Journey Of Automation Technology	Lokmanya Tilak College Of Engineering, Navi Mumbai	Participant	National	Lokmanya Tilak College Of Engineering, Navi Mumbai	18-12-2006 : 22-12-2006
STTP	Attended	Towards Effective teaching and Stress Management	Datta Meghe College Of Engineering, Navi Mumbai	Participant	National	Datta Meghe College Of Engineering, Navi Mumbai	05-01-2007 : 16-01-2007
CEP	Attended	AUTOCAD 2008	(ADCC Infocad Pvt Ltd)	TRAINEE	Regional	Authorised Training Centre (ADCC Infocad Pvt Ltd)	14-01-2008 : 19-01-2008
CEP	Attended	Imagineering Connect	L&T, Mumbai	Participant	National	L&T, Mumbai	02-06-2009 : 20-06-2011
Seminar	Attended	MATLAB And Simulink For Engineering Education	Mathworks	Participant	National	ADCC	23-09-2011 : 23-09-2011
STTP	Attended	Research Methodology: Tools And Techniques	IIT, Roorkee	Participant	International	IIT, Roorkee	12-12-2011 : 16-12-2011
Seminar	Attended	Doctoral Consortium	None	Delivered Seminar	National	VJTI, Mumbai	16-03-2012 : 16-03-2012
STTP	Attended	Introduction to Research Methodologies	IIT, Mumbai	Participant	National	VJTI, Mumbai	25-06-2012 : 04-07-2012
Seminar	Attended	Airships	VJTI, Mumbai	Participant	National	VJTI, Mumbai	30-01-2013 : 30-01-2013
Seminar	Attended	Practice Leaders Forum 2013	NITIE ,Mumbai and POMS, USA	Participant	International	NITIE ,Mumbai and POMS, USA	23-12-2013 : 24-12-2013
FDP	Attended	Project Management Tools and Techniques	VJTI and PMI	Participant	National	VJTI and PMI	22-08-2013: 26-08-2013
FDP	Attended	Simulation of Manufacturing System	Fr. CRCE and IIIE, Mumbai Chapter	Participant	National	FR. CRCE, Bandra	13-03-2015: 14-03-2015
FDP	Attended	Hands on training on Computational	Fr. CRCE	Participant	National	FR. CRCE, Bandra	03-02-2017: 04-02-2017

		Fluid Dynamics using Simulations					
Seminar	Attended	Elsevier Connect	Elsevier	Participant	National	Elsevier	26 Dec 2018
FDP	Attended	Machine Learning	Fr.CRCE,Bandra	Participant	National	FR.CRCE,Bandra	28th Feb & 22nd March 2019 (FDP 2 days)
FDP	Attended	Global Online Certification Course on Supply Chain Digitization and Management	NITIE,Mumbai	Participant	International	NITIE,Mumbai	16/01/2021 To 21/03/2021 (Online)

**Work as reviewer/Sessions chaired:-**

Work as Reviewer / Sessions Chaired			
Reviewer Type	Title	Journal / Conference Name	Year
Reviewer for Journal	Industrial Engineering Journal	Industrial Engineering Journal	Reviewed Many papers till now
Session chair	International conference on "Advances in Science and Technology - (ICAST-2015)	international conference on "Advances in Science and Technology - (ICAST-2015)	9th December, 2015 organized by SCOE, Navi Mumbai in association with University of Mumbai
Session chair	International conference on Nascent Technologies in Engineering - (ICNTE-2017)	International conference on Nascent Technologies in Engineering - (ICNTE-2017)	28 January 2017 organized by Fr.CRIT,Vashi Navi Mumbai
Session Chair	International Conference on Manufacturing & Industrial Engineering (ICMIE-2017)	International Conference on Manufacturing & Industrial Engineering (ICMIE-2017) organised by IIIE Aurangabad Chapter in association MGM's JNEC, Aurangabad	2017
Session Chair	"International Conference on Advances in Design, Manufacturing and Thermal Engineering (ICDMT)"	International Conference on Manufacturing & Industrial Engineering (ICMIE-2017) organised by IIIE Aurangabad Chapter in association MGM's JNEC, Aurangabad	Feb 2018
Session Chair	IEEE Conference on Technologies for Future Cities-2021	Pillai College of Engineering, New Panvel	08-09 October 2021
Session Chair	Doctoral Consortium event on "Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0)".	Rajiv Gandhi Institute of Technology, Mumbai	22 <sup>nd</sup> April 2022
Session Chair	Sardar Patel International Conference (SPICON-2022 )	Sardar Patel College of Engineering, Mumbai	22-23 December 2022

### **Guest Lectures Delivered: -**

1. Delivered lecture on "Research Methodology" at VIVA institute of Technology, Virar on Friday 26th June 2015.
2. Worked as resource person and delivered lecture on "Data Analysis using SPSS" on 30/06/2015 at RGIT, Versova in Faculty Development Program on "Recent Trends in Manufacturing Practices"
3. Delivered Seminar on "Introduction to application of multivariate tools in research using statistics based softwares" at SIES graduate school of Technology, Nerul, Navi Mumbai
4. Invited Lecture on –"Approaches for Successful Ph.D. Research Completion in Manufacturing Technology area" at Jondhale College of Engineering, Dombivili (Feb 2018)
5. Invited Lecture on –Research Methodology at Fr.CRCE, Mumbai (Feb 2018) for Two days FDP on Research Methodology and Statistical Techniques in Research
6. Delivered Lecture on- Publications in Predatory Journals- Cause of Pollution in Research Culture at Fr CRCE, Bandra (March-2018)
7. Invited Lecture on –Applications of Statistical Tools in Research at Rajiv Gandhi Institute of Technology, Mumbai on 29/03/2019
8. Invited Lecture on –Introduction to SPSS at Rajiv Gandhi Institute of Technology, Mumbai on 31/03/2019
9. Delivered session on "IPR for students and faculty members" on 10<sup>th</sup> January 2019 under initiative by MHRD IIC-Fr.CRCE. Talk was majorly focusing on Patents, Designs, Trademarks and other IPR related issues.
10. Guest faculty to teach a full course on Operations Planning under Uncertainty for post graduate program at NITIE, Mumbai
11. Resource person for Ph D Skill development Lab at K J Somaiya College of Engineering, Mumbai
12. Delivered invited lecture on-Statistical Analysis in Research using Open-Source Software-JAMOVİ at P. R. Pote College of Engineering and Management, Amravati

### **Contribution and Responsibilities handled in Academic Experience:**

- Contributed to Syllabus Revision Committee of Mechanical branch at undergraduate and post graduate level for Mumbai University
- Contributed to student's paper Presentation Program as a session Judge to Mumbai University Colleges
- Member of Departmental Advisory Board at Rajiv Gandhi Institute of Technology, Mumbai
- Worked as member of selection committee for selection of candidates for admission to Ph.D. (Technology) program in mechanical engineering at various institutes in Mumbai
- Worked as member of selection committee for faculty recruitment at various institutes in Mumbai
- Subject Expert in selection committee for CAS (Assistant Professor and Professor at KJSCOE, Mumbai)
- Worked as member of committee for selection of teachers at DAV Public School, Airoli

- Member of local inquiry committee for inspection of Engineering colleges in Mumbai for affiliation of UG and PG courses
- Worked as Vice Chancellors Nominee for Board of Studies in Mechanical Engineering by University of Mumbai at Autonomous College-Thakur College of Engineering and Technology, Mumbai
- Working as Vice Chancellors Nominee for Academic Council at Autonomous College-Sardar Patel College of Engineering, Mumbai

**Important Contributions at Fr CRCE,Bandra:-**

1. Head of Department (Department of Mechanical Engineering)
2. Dean (Research and Development),
3. Member of Governing Council
4. Member of Executive Committee
5. Member of College Development Committee
6. Member of Internal Quality Assurance Cell
7. Conference Chair for International Conference ICAC3
8. Design and Development of API based performance appraisal System
9. Instrumental in bringing necessary approvals for Research Centre
10. Active contribution in NBA and NAAC process
11. Coordinator for IPR cell
12. In Charge for grievance redressal cell

**Awards Received: -**

1. Awarded as Fellow Member by Indian Institution of Industrial Engineering
2. Honoured with prestigious ‘Special Award’ from Indian Institution of Industrial Engineering for continuous innovative development of Industrial Engineering in its operations and significant encouragement to the industries in India
3. Received ‘Best Paper Presentation Prize for the First Rank’ for the research paper jointly authored Ms Ketaki Joshi and presented by them at International Conference on “Role of Industrial Engineering in Industry 4.0 Paradigm (ICIEIND)” organized by IIIE Odisha chapter in collaboration with Siksha 'O' Anusandhan (Deemed to be University), at Institute of Technical Education and Research (ITER) from 27th-30th September 2018
4. Received Best paper award at National Conference organized by NITIE (2018)

**Areas of Interest:-**

Metrology, Quality Control, Performance evaluation of Information Systems, Design of Experiments, Mechatronics, Automation, Engineering Graphics, Research Methodologies, Multivariate Data analysis, Machine Vision Systems, Machine Learning, Information Systems in Manufacturing Industries, Enterprise Resource Planning, Decision Making in Uncertainty

**Software Proficiency: -**

- AUTOCAD,
- Hyper form,
- LS-DYNA,
- SPSS,
- AMOS
- MATLAB
- JAMOVI
- JASP