

# Profile

1. Name of Faculty: **Dr. Ketan Anandrao Jagtap**
2. Present Position : Lecturer in Mechanical Engg.  
(Grade A: MPSC Selected, 2009 batch)
3. Address (Office): Dept. of Mechanical Engg.,  
Govt. Polytechnic, Nashik  
Samangaon road, Nashik, Maharashtra, India
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5. E-Mail id : [ketanjagtap@gmail.com](mailto:ketanjagtap@gmail.com)
6. ORCID ID : <https://orcid.org/0000-0001-5054-6456>
7. SCOPUS ID : <https://www.scopus.com/authid/detail.uri?authorId=57200552975>
8. Research Gate Link : <https://www.researchgate.net/profile/Ketan-Jagtap>
9. Google Scholar Link : <https://scholar.google.co.in/citations?user=qGDKD9AAAAAJ&hl=en>
10. Memberships of professional organizations:
  - a. Associate Member (AM168048-2) of Institution of Engineers (India).
  - b. Life Member (LM124917) of Indian Society for Technical Education (ISTE)
  - c. Associate Member (No: AM1010002934) of The Institute of Research Engineers and Doctors (IRED), New York, USA
  - d. Member (No: 131547) of International Association of Engineers (IAENG), Hong Kong and also Member for following Societies of IAENG
    1. The IAENG Society of Industrial Engineering
    2. The IAENG Society of Mechanical Engineering
    3. The IAENG Society of Operations Research
  - e. Member of International Scientific Committee of Mechanical and Mechatronics Engineering for World Academy of Science, Engineering & Technology, USA.



## QUALIFICATIONS:

Sr. No	Degree	Specialization	College/School	University/Board	Year	Marks	Remark
1	Ph.D.	Mechanical Engg. (Manufacturing)	Dr. BATU, Lonere, Raigad (MS)		2018	---	Awarded
2	M. Tech.	Manufacturing Engg.	Dr. BATU, Lonere, Raigad (MS)		2007	87.10 % (8.71 CGPA/10)	Distinction
3	B. E.	Production Engg.	North Maharashtra University, Jalgaon (MS)		2005	74.07 %	University Topper 1 <sup>st</sup>
4	Diploma	Mechanical Engg.	G. P. Dhule	MSBTE, Mumbai	2002	66.42%	First Class
5	SSC	---	Jai Hind High School, Dhule	State Board, MH	1999	75.46 %	Distinction

## HONORS AND AWARDS

1. National Award of 'Promising Engineering Teacher for Creative Work done in Technical Education-2018' by Indian Society for Technical Education (ISTE), New Delhi.
2. 'Best Polytechnic Teacher Award-2022' by Indian Society for Technical Education (ISTE), Maharashtra & Goa Section.

3. International award of 'Early Career Teacher Award-2021', Science and Technology Academic, Innovation and Research Awards (STAIR Awards) 2021 by STAIR Progressive Forum, India.
4. Gold Medal for Bachelors in Production Engineering as a University Topper in 2005.
5. Best Research Paper Award in 7<sup>th</sup> International Conference on Recent Trends in Engineering & Technology (ICRTET-2021), Nov. 2021 by SNJB's COE, Chandawad, Nashik (MS), India.
6. Best Research Paper Award in International Conference on Smart Villages: Technology for Sustainable Development" (IC-SVTSD 2021), Nov. 2021 by Govt. Polytechnic, Sakoli (MS), India.
7. Best Research Paper Award in 2<sup>nd</sup> International Conference on Recent Trends in Material Science and Devices, Dec. 2023 by Sat Kabir Institute of Technology and Management, Bahadurgarh, Haryana, India.
8. Secured 9<sup>th</sup> rank in MPSC Examination – 2009 (Lecturer in Mechanical Engg.)
9. Silver position in Toyota Production System of Minda Group's BEST convention in 2010.

### CAREER DETAILS:

**Total Experience = More than 16 years up to till date**

Sr. No.	Organization	Designation	Duration	Period	Work Done
1	Vanaz Engineers Limited, Pune	Asst. Engineer (Research & Development)	Jan. 2008 to March 2010	3.2 years	Assembly Lines Development and R & D Activities
2	MindaRika Pvt. Limited, Pune (Uno Minda Group Company, India)	Asst. Manager (Industrial Engineering)	Apr. 2010 to Feb. 2011		Lean Manufacturing, TPM, Material Flow improvements
3	Govt. Polytechnic, Nashik	Lecturer in Mechanical Engineering	March 2011 to July, 2017	13.4 years	Research, Teaching for Mechanical Engineering and other adm. Activities
4	Govt. Polytechnic, Vikramgad	Lecturer in Mechanical Engineering	Aug. 2017 to Sep. 2020		Research, Teaching for Mechanical Engineering and other adm. Activities
5	Govt. Polytechnic, Nashik	Lecturer in Mechanical Engineering	Oct. 2020 to till date		Research, Teaching for Mechanical Engineering and other adm. Activities

## Research Activities (Ph.D.& M. Tech.)

- *Title of Ph.D. Thesis-* ‘Investigations on Machined Surface Integrity in CNC Turning of Biocompatible Co-Cr-Mo Alloy’ conducted at Dr. BATU, Lonere under the guidance of Dr. R. S. Pawade (Asso. Prof., Dr. BATU, Lonere).
- *Title of M. Tech Project-* ‘Some Investigations on Ultra-precision Machining of Optical Polymers’ under the guidance of Dr. R. Balasubramaniam (BARC, Mumbai), Dr. P. K. Brahmankar and Dr. R. S. Pawade (Dr. BATU, Lonere).

## Research Publications (Total = 51 Nos.)

Google Scholar Citations = 98, h-index = 6, i10-index= 4

### *Papers published in Refereed Journal Articles (Total= 17)*

1. **Ketan Jagtap** and Suresh Sanap, Some Studies on Cutting Force Generation in Machining of Mg-Ca1.0 Alloy, Journal of Graphic Era University, Vol. 121 (2024), pp 77–88.
2. **Ketan A. Jagtap** and Raju S. Pawade, Monitoring of Surface Topography in CNC Turning of Co-Cr-Mo Biomaterial by Using Acoustic Emission Signals, International Journal of Surface Review and Letters, Vol. 29 No. 08 (2022), 2250108 pp 1-12
3. **Ketan Jagtap** and Jayant Joshi, Role of Mechatronics in Agriculture Transformation, International Journal of Innovations in Engineering and Science, Vol. 7, No. 1, 2022, PP 01-06.
4. **K. A. Jagtap**, Effect of Cutting Parameters in Precision Turning of Nickel Alloy by RSM, International Journal for Research in Engineering Application & Management (IJREAM), Special issue, 2018, pp 412-416.
5. **Ketan Jagtap** and Raju Pawade, Some Investigations on Surface Roughness and Cutting Force in Face Turning of Biocompatible Co-Cr-Mo Alloy, Advanced Materials Proceedings, VBRI Press Sweden, 3 (4), 2018, pp 289-297.
6. **Ketan A. Jagtap** and Raju S. Pawade, Some Studies on Chip Formation Mechanism in CNC Turning of Biocompatible Co-Cr-Mo Alloy, Elsevier Procedia Manufacturing, 20, 2018, pp 283-289.
7. **Ketan A. Jagtap** and Raju S. Pawade, ‘Experimental Investigation on Surface Roughness of Face Turned Co-Cr-Mo Biocompatible Alloy Followed by Polishing’, Journal of Material Science and Surface Engineering, 5 (4), 2017, pp 585-592.
8. **K. A. Jagtap**, R. S. Pawade and K. V. Giradkar, ‘Some Investigations on Surface Integrity and Electrochemical behaviour of Machined Co-Cr-Mo Bio-implant Alloy’, International Journal of Advanced Design and Manufacturing Technology, Vol. 9/ No. 4, 2016, pp 51-58.
9. **Ketan A. Jagtap**, Rajendra V. Rupvate and Sanjay P. Muley, “On the Influence of Cutting Parameters on Machined Surface Flatness in Precision Turning of Nickel Alloy”, International Advanced Research Journal in Science, Engineering and Technology (ISSN online:2393-8021), Vol 3, Special Issue 1, March 2016, pp 217-222.
10. **Ketan A. Jagtap**, Suryakant A. Kulkarni and Avinash S. Sangwkar, “Effect of Drilling Parameters for the Assessment of Roughness of Drilled Holes in Glass Fiber Reinforced Plastic (GFRP)” International Organization of Scientific Research (IOSR) Journal, Special Issue, March, 2016, pp 42-47.
11. **Ketan Jagtap**, Shubham Dabhade, Rahul Bhumkar, PrashantChinchale and Nikhil Deore, “Effect of Cutting Parameters on Delamination of Glass fiber Reinforced Plastic (GFRP) in CNC Milling”, Journal of Advanced Mechanical Engineering, Vol.2/No.1, 2015, pp. 14-21.
12. **K. A. Jagtap**, A. G. Waghulde, A. S. Sangwkar. S. J. Gorane and S. P. Muley, “Some Studies of Delamination of Glass Fiber Reinforced Plastic (GFRP) in CNC Milling”,

- International Journal of Modern Trends in Engineering and Research (ISSN No.:2349-9745), Special Issue, July 2015, pp 1599-1604.
13. **Ketan Jagtap**, Sunil Medhe, Avinash Sangwkar and Raju Pawade, “Experimental Investigations on Surface Topography in CNC machining of Nickel-200 Alloy”, International Journal of Scientific Research Engineering and Technology, pp 97-102, 2013.
  14. **Jagtap K.** and Pawade R., “Experimental Investigation on the Influence of Cutting Parameters on Surface Quality in SPDT of PMMA”, International Journal of Advanced Design and Manufacturing Technology, Vol. 7/ No. 2, 2014, pp. 53-58.
  15. **Ketan Jagtap**, Shubham Dabhade, Rahul Bhumkar, PrashantChinchale and Nikhil Deore, “Some Studies on Surface Roughness of Drilled Holes in GFRP Composite by CNC Milling Process”, International Journal of Engineering Sciences, 8 (2), 2014, pp. 77-83.
  16. **K. A. Jagtap**, R. S. Pawade and R. Balasubramaniam, “Some investigations of Surface characteristics in Precision turning of Nylon and Polypropylene”, Special Issue of International Journal of Electronics, Communication & Soft Computing Science & Engineering, India, ISSN: 2277-9477, pp 236-240, 2012.
  17. N. Khobragade, K. Giradkar, **K. Jagtap** and R. Pawade, Effect of Concentration and Surface Roughness on Corrosion Behavior of Co-Cr-Mo Alloy in Hyaluronic Acid, Material Research Express, 5 (1), 2018.

***Presentations and Publications in Refereed International Conference Proceedings (Total = 31 Nos.)***

1. **Ketan Jagtap**, Effect of Input Machining Parameters in CNC Precision Turning of High Speed Steel (HSS) T-42, 1<sup>st</sup> International Conference on RESOURCEFUL SOLUTIONS FOR SUSTAINABLE ENGINEERING (RSSE-2024), GIET UNIVERSITY, GUNUPUR, ODISHA (India), Dec. 2024.
2. **Ketan Jagtap** and Suresh Sanap, Some Studies on Cutting Force Generation in Machining of Mg-Ca1.0 Alloy, 3<sup>rd</sup> International Conference on Mathematical, Engineering and Management Sciences (ICMEMS- 2024), Jointly organized by VNIT Nagpur, MNIT Jaipur and G. P. Sakoli, Jan. 2024.
3. **Ketan Jagtap** and Raju Pawade, Impact of Machining Environment on Surface Integrity of Co-Cr-Mo Biomaterial in CNC Precision Turning, 2<sup>nd</sup> International Conference on Recent trends in Material Science and Devices, Sat Kabir Inst. of Technology and Management, Nahadurgarh, Harayana, Dec. 2023. ***(Best Paper Award)***
4. **Ketan Jagtap**, Effect of Cutting Parameters on Machined Roughness of HSS T-42 in Precision Dry Turning, 4<sup>th</sup> International Conference on Engineering & Advancement in Technology (ICEAT-2023), Malla Reddy Institute of Engineering & Technology, Hyderabad, Telangana, June 2023.
5. **Ketan Jagtap** and Raju Pawade, Effect of Machining Parameters on Machined Flatness for Optical PMMA by Single Point Diamond Turning (SPDT), 7<sup>th</sup> International Conference on Recent Trends in Engineering & Technology (ICRTET-21), SNJBs COE, Chandawad, Nashik, India, Nov. 2021. ***(Best Paper Award)***
6. **Ketan Jagtap** and Jayant Joshi, Role of Mechatronics in Agriculture Transformation, International Conference on “Smart Villages: Technology for Sustainable Development” (IC-SVTSD-2021), Government Polytechnic, Sakoli , MS, India, Nov. 2021. ***(Best Paper Award)***
7. **Ketan Jagtap** and Chandrakant Seemikeri, Some Investigations on Machined Surface Roughness in Precision Turning of HSS T-42, International Conference on Recent Trends in Engineering & Technology (RTET-2021), MIT Bishnupur, WB, India, 2021.
8. **Ketan Jagtap** and Raju Pawade, Some Investigations on Specific Cutting Energy in Precision Machining of Co-Cr-Mo Biomaterial as a Perspective of Productivity,

- International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 2019), IIT Indore, 2019.
9. **Ketan A. Jagtap** and Chandrakant Y. Seemikeri, Some Investigations on Low Plasticity Burnishing on the Surface Integrity of AA7075-T6 alloy by Response Surface Methodology, 2<sup>nd</sup> International Conference on Manufacturing Excellence (ICMAX-2019), KKW IE&R, Nashik, 2019.
  10. **Ketan Jagtap**, Chandrakant Seemikeri and Raju Pawade, Some Investigations on Cutting Forces in Face Turning of Co-Cr-Mo Biocompatible Alloy by RSM', 2<sup>nd</sup> International Conference on Advanced Technologies for Societal Application (Techno Societal-2018), SVERI, Pandharpur, MS, India, 2018
  11. **K. A. Jagtap**, V. S. Patil and S. S. Panpatil, Effect of Cutting Parameters in Precision Turning of Nickel Alloy by RSM, 6<sup>th</sup> International Conference on Recent Trends in Engineering and Technology (ICRETE'2018), Chandawad, Nashik, MS, India, May 2018.
  12. **Ketan Jagtap** and Raju Pawade, 'Some Studies on Chip Formation Mechanism in CNC Turning of Biocompatible Co-Cr-Mo Alloy', 2<sup>nd</sup> International Conference Materials, Manufacturing and Design (iCMMD-2017) at MIT, A'bad (M.S.), India, December 2017.
  13. **K. A. Jagtap**, V. S. Narkhede, S. R. Wankhede and R. S. Pawade, "Some Investigations on Cutting Forces in Face Milling of Mg-Ca1.0 Alloy", International Conference on Manufacturing Excellence (ICMAX-2017), KKWIEE&R, Nashik (MS), India, 2017.
  14. **Ketan A. Jagtap** and Raju S. Pawade, "A Comparative Analysis of Cutting Forces in Precision Turning of Co-Cr-Mo Bio-implant Alloy in Dry and Wet Machining Environments", International Conference on Materials, Manufacturing and Design (iCMMD-2016) at Dr. BATU, Lonere (M.S.), India, December 2016. (Published in Springer Atlantis Procedia)
  15. **Ketan A. Jagtap** and Shrikant J. Gorane, "Influence of Cutting Parameters on Machined Surface Roughness in Precision Turning of High Speed Steel (HSS) T-42 by Taguchi DOE", International Conference on Science and Technology for Sustainable Development (ICSTSD- 2016), Sandip Foundation, Nashik (M.S.), India, May 2016.
  16. **K. A. Jagtap**, A. G. Waghulde, S. A. Kulkarni, S. P. Muley and P. G. Kochure, "Some Studies on Machined Surface Integrity in Precision Turning of Nylon", 5<sup>th</sup> International Conference on Recent Trends in Engineering and Technology (ICRTET-2016), Powered by McGraw Hill, Chandawad, Nashik (M.S.), India, April 2016.
  17. **Ketan A. Jagtap**, Rajendra V. Rupvate and Sanjay P. Muley, "On the Influence of Cutting Parameters on Machined Surface Flatness in Precision Turning of Nickel Alloy", 2<sup>nd</sup> International Conference on Advances in Mechanical Engineering (ICAME-2016), Amrutvahihi COE, Sangamner (M.S.), India, April 2016.
  18. **Ketan A. Jagtap** and Raju S. Pawade, "On the Influence of Cutting Forces in Precision Turning of Co-Cr-Mo Bio-implant Alloy", 9<sup>th</sup> International Conference on Precision Micro Meso and Nano Engineering (COPEN-9) at IIT Bombay, India in Dec. 2015.
  19. **K. A. Jagtap**, A. G. Waghulde, A. S. Sangwkar, S. J. Gorane and S. P. Muley, "Some Studies on Delamination of GFRP in CNC Milling", 4<sup>th</sup> International Conference on Recent Trends in Engineering and Technology (ICRTET-2015), Powered by McGraw Hill, Chandawad, Nashik (M.S.), India, July 2015.
  20. **Ketan Jagtap**, Shubham Dabhade, Rahul Bhumkar, Prashant Chinchale and Nikhil Deore, "Some Studies on Surface Roughness on Drilled Holes in GFRP Composite by CNC Milling Process", International Conference on Advances in Engineering & Technology (ICAET- 2014), Lonavala, Pune, India, Sep. 2014.
  21. **Ketan A. Jagtap**, Sukhadeo S. Vaditake, Rajendra V. Rupvate and Pramod G. Kochure, "Some Studies on Machined Surface Flatness in Precision Turning of High Speed Steel T-42", 3<sup>rd</sup> International Conference on Recent Trends in Engineering and Technology (ICRTET-2014), Powered by Elsevier, Chandawad, Nashik (M.S.), India, March 2014.

22. **Ketan Jagtap** and Suresh Sanap, “Effect of Machining Parameters on Machined Surface Flatness in Precision Turning of Nickel Alloy”, International Conference on Design, Manufacturing and Mechatronics (ICDMM- 2014), Pune, India, Jan. 2014
23. **Ketan A. Jagtap** and Raju S. Pawade, “Effect of Machining Environment on Surface Integrity in Precision Turning of CoCrMo Bio-implant Alloy”, International Conference on Precision, Meso, Micro and Nano Engineering (COPEN- 8), NIT Calicut, Kerala, India, Dec. 2013
24. **Ketan Jagtap** and Raju Pawade, “Experimental Investigations on Surface Characteristics in Single Point Diamond Turning of PMMA”, International Conference on Global Innovations in Technology and Sciences (ICGITS- 2013), Kottayam, Kerala, India, April 2013.
25. Abhay Kobarne, Chetan Bargal and **Ketan Jagtap**, “Experimental Investigations on Surface Characteristics in CNC Machining of HSS T-42”, International Conference on Recent Trends in Engineering and Technology (ICRTET-2013), Chandawad, Nashik (M.S.), India, March 2013.
26. **Ketan Jagtap**, Santosh Gaydhani, PrashantGhotkar, Yogesh Kokate and Raju Pawade, “Machinability of Nickel and it’s Alloys in Various Machining Processes”, 2<sup>nd</sup> International Conference on Recent Trends in Engineering and Technology (ICRTET-2013), Chandawad, Nashik (M.S.), India, March 2013.
27. **Ketan Jagtap**, Aniruddha Gadhikar, Suresh Sanap and Vijay Bukka, “Photochemical Machining (PCM)- An Effective tool for Precision Engineering”, International conference on Advancements in Engineering and Technology (ICAET-2012), Sangrur, Punjab, India, Oct. 2012.
28. **Ketan Jagtap**, Raju Pawade and R. Balasubramaniam, “Some investigations on surface flatness in ultra precision machining of an optical polymer”, International conference on Advances in Manufacturing Technology (ICAMT-2012), Chennai, India, June 2012.
29. **K. A. Jagtap**, R. S. Pawade and R. Balasubramaniam, “Some investigations of Surface characteristics in Precision turning of Nylon and Polypropylene”, International conference on Recent Trends in Engineering and Technology (ICRTET-2012), Chandawad, Nashik (M.S.), India, March 2012
30. **Ketan Jagtap** and Raju Pawade, “A Comparative analysis of surface topography in ultra precision machining of an optical polymer”, International conference on Precision, Micro, Meso and Nano Engineering (COPEN-2011), Pune (M.S), India, Dec. 2011
31. **K. A. Jagtap**, R. S. Pawade, P. K. Brahmkar and R. Balasubramaniam, “Surface characterization of optical polymers in ultra precision machining”, International conference on Precision, Micro, Meso and Nano Engineering (COPEN-2007), Kerala, India, Dec. 2007

***Presentations and Publications in Refereed National Conference Proceedings (Total=03 Nos.)***

1. **Ketan A. Jagtap**, Suryakant A. Kulkarni and Avinash S. Sangwikar, “Effect of Drilling Parameters for the Assessment of Roughness of Drilled Holes in Glass Fiber Reinforced Plastic (GFRP)”, 5<sup>th</sup> National Conference on Recent Developments in Mechanical Engineering (RDME-2016), Modern Ed. COE, Pune, India, March 2016.
2. **Ketan A. Jagtap**, Atul G. Waghulde, Suryant A. Kulkarni and Sanjay P. Muley, “Some Studies on the Influence of Cutting parameters on Machined Roughness of Nickel Alloy in CNC Turning”, National Conference on Advanced Technology and Innovations in Mechanical Engineering (ATIME-2015), Sinhgad Academy of Engineering, Pune (M.S.), India, January 2015.
3. **K. A. Jagtap** and R. S. Pawade, “Diamond Turning of Optical Polymers”, National Conference on Innovations in Mechanical Engineering, Lonavala (M.S.), India, April 2012.

### Editorial Board Member/Reviewer for International Journals and Conferences

1. Editorial Board Member of Online Journal of Mechanical Engineering by Science Publications, USA (<https://www.scipublications.com/journal/index.php/ojme/editors>)
2. Editorial Board Member of International Journal of Industrial and Manufacturing Systems Engineering (IJIMSE) by Science Publishing Group, USA (<https://www.sciencepublishinggroup.com/journal/editorialboard?journalid=210>)
3. Reviewer for Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE), Springer Publications.
4. Reviewer for Indian Journal of Engineering and Materials Sciences (IJEMS), ISSN: 0971-4588, Scopus Indexed, SCI Journal, India.
5. Reviewer for International E-Conference on Mechanical and Material Science Engineering : Innovation and Research (ICMMSE:IR 2021) Organized by Department of Mechanical Engineering, Sandip Institute of Technology & Research Centre, Nashik (MS)
6. Reviewer for International conference on Recent Trends in Engineering & Technology (Series ICRTET-2011 to ICRTET-2018) at SNJB's COE, Chandawad, Nashik.
7. Reviewer for International Conference Materials, Manufacturing and Design (iCMMMD-2017) at MIT, A'bad (M.S.), India, December 2017.
8. Reviewer for International E-Conference on Mechanical and Material Science Engineering: Innovation and Research (ICMMSE:IR 2021).

### SPECIALIZED TRAINING COURSES ATTENDED:

Sr. No	COURSE NAME	DURATION	PLACE	TRAINING AGENCY	REMARKS
1	Two week Induction Programme Phase- I	30 <sup>th</sup> May to 10 <sup>th</sup> June 2011	Govt. Polytechnic, Nashik	NITTTR, Bhopal	---
2	One week STTP on Advances in Materials and Manufacturing Processes	27 <sup>th</sup> June to 1 <sup>st</sup> July 2011	Dr. BATU, Lonere	Under TEQIP I	---
3	One week Staff Development Programme on Research Methodology	16 <sup>th</sup> April to 21 <sup>st</sup> April 2012	Sinhgad AOE, Kondhwa, Pune	AICTE, New Delhi	---
4	Three Day National Workshop on Precision Manufacturing and Measurements	18 <sup>th</sup> May to 20 <sup>th</sup> May 2012	NIT Warangal (AP)	Under TEQIP II	---
5	One week STTP on Excellence in Maintenance Engineering	9 <sup>th</sup> July- 13 <sup>th</sup> July 2012	Govt. COE, Pune	Under TEQIP II	---
6	One week Faculty Development Programme on Nanomaterials and Nanocomposites	3 <sup>rd</sup> Dec. to 7 <sup>th</sup> Dec. 2012	Govt. COE, Pune	Under TEQIP II	---
7	Two week Induction Programme Phase- II	4 <sup>th</sup> Feb. to 15 <sup>th</sup> Feb. 2013	NITTTR Extn Centre, Pune	NITTTR, Bhopal	---

8	Two week AICTE sponsored FDP on Characterization of Materials and Processing of High Strength Materials	25 <sup>th</sup> June to 6 <sup>th</sup> July 2013	GKRIET, Hyderabad	AICTE, New Delhi	---
9	One week Industrial Training	16 <sup>th</sup> Sep. to 20 <sup>th</sup> Sep. 2013	Fiat India Ltd., Pune	MSBTE, Mumbai	---
10	Two week AICTE sponsored STC on Materials Engineering and Industrial Applications: Hybrid nano-composites for photonics, energy and electronic devices	11 <sup>th</sup> Nov. to 22 <sup>nd</sup> Nov. 2013	IIT Kharagpur (WB)	AICTE, New Delhi	---
11	Six week Foundation Training Programme	13 <sup>th</sup> Jan to 22 <sup>nd</sup> Feb 2014	YASHADA, Pune	Govt. of Maharashtra (DTE, Mumbai)	---
12	One week STTP on Nanotechnology & It's Applications	14 <sup>th</sup> to 18 <sup>th</sup> July 2014	Govt. Polytechnic, Nashik	NITTTR, Bhopal	---
13	One week STTP on Modern Techniques of Material Testing	5 <sup>th</sup> to 9 <sup>th</sup> Jan. 2015	Govt. Polytechnic, Nashik	MSBTE, Mumbai	---
14	Two week FDP on Manufacturing Excellence	21 <sup>st</sup> April to 2 <sup>nd</sup> May 2015	Amrutvahini COE, Sangamner	AICTE, New Delhi	---
15	One week STTP on Advances in Manufacturing Technologies and Management (AMTM)	11 <sup>th</sup> January to 15 <sup>th</sup> January 2016	Govt. Polytechnic, Nashik	ISTE, New Delhi	---
16	One week STTP on Institutional Preparation for Accreditation and Academic Audit	1 <sup>st</sup> Feb to 5 <sup>th</sup> Feb 2016	NITTTR Extn Centre, Pune	NITTTR, Bhopal	---
17	One week STTP on Excellence in Manufacturing Engineering	2 <sup>nd</sup> Jan to 6 <sup>th</sup> Jan., 2017	Govt. Polytechnic, Nashik	DTE, Mumbai	---
18	Two week FDP on Competitive Manufacturing Technologies	11 <sup>th</sup> – 22 <sup>nd</sup> Dec., 2017	AVCOE, Sangamner, A'Nagar	AICTE, New Delhi	---
19	Research Methodologies & Optimization Techniques	30 <sup>th</sup> Jan- 3 <sup>rd</sup> Feb., 2018	Govt. Polytechnic, Nashik	DTE, Mumbai	---



20	Industrial Training	11 <sup>th</sup> – 13 <sup>th</sup> July, 2018	NEC, Nashik	MSBTE, Mumbai	---
21	One week FDP on Automotive Control Systems	7 <sup>th</sup> – 11 <sup>th</sup> Jan, 2019	NITTTR, Bhopal	NITTTR, Bhopal	---
22	3 days Industrial Training	21 <sup>st</sup> Aug – 23 Aug, 2019	Strama Summit Machinery Pvt. Ltd., Nashik	MSBTE, Mumbai	---
23	12 week FDP on Fundamentals of Manufacturing Processes	Jul-Oct, 2019	Online Prog.	NPTEL-AICTE	
24	One week Industrial Training	20 <sup>th</sup> Jan – 24 Jan, 2020	Bosch-DYPSOCA Joint Certification Center, Pune	MSBTE, Mumbai	---
25	One week Industrial Training	10 <sup>th</sup> Feb- 14 <sup>th</sup> Feb, 2020	CIPET, Aurangabad	MSBTE, Mumbai	---
26	One week AICTE approved FDP on Green & Intelligent Buildings	14 <sup>th</sup> Apr- 18 <sup>th</sup> Apr, 2020	Online Prog.	NITTTR, Chandigarh	---
27	E-learning courses on 1. Bulk material handling 2. Measuring instrument 3. Heat treatment of steel 4. Industry 4.0 5. Basic TQM 6. Industrial water system	24 <sup>th</sup> Apr- 30 <sup>th</sup> Apr, 2020	Online Prog.	TATA Steel	---
28	One week AICTE approved FDP on 'Wellness and Stress Management during the Pandemic'	27 <sup>th</sup> Apr- 1 <sup>st</sup> May, 2020	Online Prog.	NITTTR, Chandigarh	---
29	One week AICTE approved FDP on 'Academic Leadership Enhancement in Technical Education'	4 <sup>th</sup> May- 8 <sup>th</sup> May, 2020	Online Prog.	NITTTR, Chandigarh	---
30	One week AICTE approved FDP on 'Organizational Behavior'	11 <sup>th</sup> May- 15 <sup>th</sup> May, 2020	Online Prog.	NITTTR, Kolkata	---
31	One week AICTE approved FDP on 'Pattern Recognition: Theory and Application'	20/07/2020 to 24/07/2020	Online Prog.	NITTTR, Kolkata	--

32	One week AICTE approved FDP on 'Advances in Additive Manufacturing'	20-25 July, 2020	Online Prog.	YCCOE, Nagpur	--
33	One week AICTE approved FDP on Instructional Planning	3-7 Aug., 2020	Online Prog.	NITTTR, Kolkata	--
34	One week AICTE approved FDP on CNC Machines	28 Sep- 2 Oct., 2020	Online Prog.	NITTTR, Kolkata	--
35	One Week Faculty Development Program (Online)" under TEQIP III on "Interdisciplinary Aspects in Modeling of Manufacturing Processes	21-29 Nov., 2020	Online Prog.	DBATU, Lonere & IIT, Bombay	--
36	Two week AICTE Sponsored FDP on "Frontiers of 3D Printing Technology and its Industrial Applications"	7 – 19 Dec., 2020	Online Prog.	LBRCE, Andhra Pradesh, India	--
37	AICTE sponsored Online STTP on "Use of Modern Tools and Computing Skills for Engineers and Researchers	18-23 Jan., 2021	Online Prog.	PCE, Nagpur	--
38	Two week AICTE FDP on Pollution Testing	15- 26 Feb., 2021	Online Prog.	NITTTR, Kolkata	--
39	One week FDP on Advanced Measurement Techniques	1 - 6 March., 2021	Online Prog.	VIT, Pune	--
40	One AICTE Week FDP on Introduction to Manufacturing Systems	31 May – 04 June, 2021	Online Prog.	NITTTR, Kolkata	--
41	One AICTE Week FDP on Engineering Capstone Project	7 June – 11 June., 2021	Online Prog.	NITTTR, Kolkata	--
42	One week AICTE ATAL FDP on Additive Manufacturing in Industry 4.0 Strategy	5 – 9 July, 2021	Online Prog.	NIT, AP	--
43	Industrial Training in Artificial Intelligence & Machine Learning Using Python	19-07-2021 to 02-08-2021	Online Prog.	NSIC, Hyderabad	--

44	Two week Industrial training on Robotic Process Automation	2 – 13 Aug., 2021	Online Prog.	MSBTE, Mumbai	--
45	One AICTE Week FDP on Estimating & Costing of Non-conventional Energies	9 – 13 Aug., 2021	Online Prog.	NITTTR, Kolkata	--
46	One AICTE Week FDP on Introduction to Welding Processes	30 Aug- 3 Sep., 2021	Online Prog.	NITTTR, Kolkata	--
47	One week AICTE ATAL FDP on "Advances in Micro Manufacturing"	21 – 25 Sep., 2021	Online Prog.	Bundelkhand Institute of Engineering and Technology, Jhnsi.	--
48	One week AICTE ATAL FDP on 'Advanced Manufacturing of Biomedical Devices for Precision Health Technologies'	13-17 Dec., 2021	Online Prog.	IIT, Tirupati	--
49	One week AICTE ATAL FDP on 'Smart Manufacturing'	17-21 Jan., 2022	Online Prog.	North Eastern Regional Institute of Science and Technology.	--
50	One week FDP on Bio-Medical Engineering	24-28 July, 2023	Online Prog.	NITTTR, Kolkata	--
51	One week FDP on Air, Water Pollution & Health	31 July – 4 Aug, 2023	Online Prog.	NITTTR, Kolkata	--
52	One week FDP on Professional Values and Ethics	4- 10 Dec, 2023	Online Prog.	NITTTR, Kolkata	--

**NPTEL (AICTE Approved) COURSES COMPLETED (National Programme on Technology Enhanced Learning by MHRD, Govt. of India)**

Sr. No	Title of Course	Duration	Weeks	% marks	Host Inst.
1	Fundamentals of Manufacturing Processes	July-Oct, 2019	12	61	IIT, Roorkee
2	Introduction to Abrasive Machining & Finishing Processes	Jan-March, 2020	8	67	IIT, Guwahati
3	Roadmap for Patent Creation	Jan-March, 2020	8	56	IIT, Kharagpur
4	Fundamentals of Welding Science & Technology	Jan-March, 2021	8	49	IIT, Guwahati
5	Computer Integrated Manufacturing	Jan-April, 2021	12	75	IIT, Kanpur

6	Laser Based Manufacturing	Aug-Oct, 2022	8	85	IIT, Guwahati
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## WORK DONE IN THE AREA OF TECHNICAL/ORGANIZATIONAL EDUCATION

1. Member of DTE's, MSBTE's and Govt. of Maharashtra Academic Monitoring committees for Engineering, Polytechnic and Pharmacy Institutes.
2. Additional officer In-charge (Regional Assessment Center) MSBTE Exams
3. Additional officer In-charge (Local Assessment Center) Inter College Exams
4. Sub District Liaison Officer for MTCET-2013 exam for Nashik District.
5. Additional Officer In-charge for Local Assessment Center- Summer Exam 2014
6. Verification officer for AICTE Verification for private polytechnics in Nashik region.
7. Verification officer for MSBTE affiliated polytechnics in Nashik region.
8. Officer In-charge QC (Regional assessment center- Summer 2016) MSBTE Exam
9. Co-coordinator for ARC center of DSU diploma courses (DS5010) Year 2016 admission
10. Subject Expert for 'I Scheme' Curriculum Development Committee of MSBTE, Mumbai.
11. Sub District Liaison Officer for MTCET-2017 exam for Nashik District.
12. Handling the charge of Training & Placement Officer of G. P. Vikramgad from Sep. 2017.
13. Handling the charge of Head of Dept. (Mechanical) at G. P. Vikramgad from July, 2019.
14. Member & Coordinator of Programme wise Committee (PWC) of Diploma in Mechatronics at G. P. Nashik since from 2020-21.
15. Curriculum (NEP-2020) In-charge of Diploma Programme in Mechatronics at G. P. Nashik.

## WORKSHOP/ COMPETITION ARRANGED

1. **Coordinator** of DTE, Mumbai approved and sponsored One Week Online Faculty Development Programme on 'Advances in Manufacturing Processes & Systems' (AMPS-22) during 21<sup>st</sup> Feb.- 25<sup>th</sup> Feb., 2022.
2. **Coordinator** of MSBTE, Mumbai approved one week Online FDP on 'Research Aspects in Manufacturing Science' (RAMS-21) at G. P. Nashik during 30<sup>th</sup> March – 03<sup>rd</sup> April, 2021.
3. **Coordinator** of 3 days Online Webinar Series Programme 'Mechastream – 2020' conducted at G. P. Nashik during 1<sup>st</sup> – 3<sup>rd</sup> Nov, 2020.
4. **Coordinator** of State Level Online Quiz Event on Industrial Hydraulics & Pneumatics by G. P. Vikramgad on 10<sup>th</sup> May, 2020.
5. **Coordinator** of Online Awareness Programme for COVID-19 conducted by Govt. Polytechnic, Vikramgad in Apr-may, 2020.
6. **Coordinator** of One week Directorate of Technical Education Maharashtra State approved and sponsored STTP on 'Excellence in Manufacturing Engineering' at G. P. Nashik from 2<sup>nd</sup> -6<sup>th</sup> January, 2017.
7. **Coordinator** of two days workshop on 'Lean manufacturing' at G. P. Nashik from 8<sup>th</sup> – 9<sup>th</sup> Sep., 2016.
8. **Co-coordinator** for ISTE-AICTE One week STTP on 'Advances in Manufacturing Technologies and Management' at G P Nashik in Jan 2016.
9. **Reviewer** of projects (Manufacturing Section) for DIPEX-2015 at Nashik on 10<sup>th</sup> March, 2015
10. **Session Chair** for National Conference on ATIME 2015 at Sinhagad ACE, Kondhwa, Pune from 22-24 Jan, 2015.

11. **Co-coordinator** for MSBTE Sponsored One week Content Updating Training Programme on 'Modern Techniques of Material Testing' (MTMT) at G P Nashik from 5<sup>th</sup> – 9<sup>th</sup> Jan. 2015.
12. **Convener** for Two days workshop on 'Lean Manufacturing' at G P Nashik (2014).
13. **Coordinator** of MECHSTREAM- 2013 (An Expert Lecture Series Programme) at G P Nashik.
14. **Co-coordinator** for MSBTE Sponsored One week Content Updating Programme on 'Advances in Manufacturing Processes, Systems and Materials' (AMPSM) at G P Nashik from 24<sup>th</sup> – 28<sup>th</sup> Dec. 2012.
15. **Coordinator** of MECH EXPO- 2012 (Project/Poster/Paper competition) at G P Nashik.
16. **Coordinator** of MECHSTREAM- 2012 (An Expert Lecture Series Programme) at G P Nashik.
17. **Coordinator** of MECH EXPO- 2011 (Project competition) at G P Nashik
18. **Reviewer** for different National and International Conferences in India.

## PROJECT GUIDANCE

Guided following projects for III Year Mechanical Engineering/Mechatronics students:

1. Laser engraving Machine in 2023 at G. P. Nashik (Winner in Dipex- 2024)
2. Automatic Green Spring Cutting Machine for Onion and Garlic in 2023 at G. P. Nashik (Presented in Dipex- 2024) (Mechatronics)
3. Universal Inspection Gauge in 2023 at G. P. Nashik.
4. Ammonia Gas Leakage Detection System in 2022 at G. P. Nashik.
5. Advanced safety for Machine Tool in Disaster in 2022 at G. P. Nashik (Presented in Dipex- 2023)
6. IoT Based Pesticide Sprinkler for Agriculture in 2021 at G. P. Nashik
7. 5 in 1 Agribot in 2021 at G. P. Nashik
8. Process Flow Improvement in Mornisa Bio-organics Pvt. Ltd., Chalisgoan in 2020 at G. P. Nashik
9. Productivity Improvement in Samarth Mould, Nashik in 2020 at G. P. Nashik.
10. Solar operated Blower for Grain/Seeds Cleaner in 2018 at G. P. Vikramgad. (Secured First prize in DIPEX-2018 at Sangali)
11. Alcohol Sensing Alert with Engine Locking in 2018 at G. P. Vikramgad.
12. Solar Refrigerator cum Oven in 2018 at G. P. Vikramgad.
13. Solar cum Mechanically Driven Tricycle for Physically Disabled Person in 2017 at G. P. Nashik. (Secured Second Prize in DIPEX-2017 at Pune)
14. Generation of Biogas by Waste Management in 2017 at G. P. Nashik.
15. Development of Dust Cap Crimping Fixture in 2016 at G. P. Nashik.
16. Automatic Linear Target Detection System in 2016 at G. P. Nashik.
17. Modification in Band saw Machine by Application of Mechatronics in 2015 at G. P. Nashik.
18. Development of Spring Loaded Magnetic Abrasive Finishing Machine in 2015 at G. P. Nashik.
19. Experimental Investigations on Surface Roughness and Delamination of GFRP Composite in CNC Milling in 2014 at G. P. Nashik.
20. Twin Spindle Vertical SPM in 2014 at G. P. Nashik.
21. Development of Spring Loaded Abrasive Float Polishing Machine in 2014 at G. P. Nashik. (Presented in DIPEX-2015 at Nashik)
22. Some Investigations on Surface Characteristics in CNC Turning of HSS T42 in 2013 at G. P. Nashik
23. Some Investigations on Surface Characteristics in CNC Turning of Nickel 200 Alloy in 2013 at G. P. Nashik.
24. Demonstration and Working of Screw Conveyor in 2012 at G. P. Nashik.

## EXPERT TALK

1. Expert Lecture on “Micromachining of Polymers” in MECH EXPO- 2011 at G P Nashik
2. Expert Lecture on “Advanced Welding Technologies” in MECHASTREAM- 2012 at G P Nashik
3. Expert Lecture on “Advanced Welding Technologies” at Govt. Polytechnic, Jalgaon (2014).
4. Expert Lecture on “Welding Technologies” at KVN Naik Polytechnic, Nashik (2015).
5. Expert Lecture on ‘Welding Technologies & it’s Applications’ at KVN Naik Polytechnic, Nashik (2018)
6. Expert Lecture on ‘Technological Developments in Biomaterials’ at JMCT Polytechnic, Nashik (2018).
7. Expert Lecture on ‘Recent Trends in Advanced Manufacturing Processes’ at HHJB Polytechnic, Chandawad, Nashik (2019).
8. Expert Lecture on ‘Bio-implants and their Applications’ at Shatabdi Inst. Of Engg & Research, Nashik (2019).
9. Expert Lecture on ‘Welding Processes and their Applications’ at JMCT Polytechnic, Nashik (2019).
10. Expert Talk on ‘Material Deformation in Machining of Biomaterials’ in MSBTE, Mumbai approved one week Online FDP on ‘Research Aspects in Manufacturing Science’ (RAMS-21) at G. P. Nashik in Apr, 2021.
11. Expert Talk on 'Applications of Manufacturing Processes in Industrial sector" for HHJB Poly, Chandawad dated 13/05/2021.
12. Expert Talk on "Applications of Manufacturing Processes in Industries" for G. P. Jalgaon dated 20/05/2021.
13. Expert Talk on "Industrial Applications of basic manufacturing processes" for G. P. Vikramgad dated 21/05/2021.
14. Expert Talk on "Modern Trends in Advanced Manufacturing Processes" for Thakur Polytechnic, Mumbai dated 25/05/2021.
15. Expert Talk on "Applications of manufacturing Processes in Industrial sector" for Sandip University, Nashik campus dated 30/05/2021.
16. Expert Talk on "Applications of Basic Manufacturing Processes in Industrial Sector" for G. P. Awsari dated 05/06/2021.
17. Expert Talk on “Automation through Computer Integrated Manufacturing (CIM)” in AICTE ATAL FDP on ‘Advanced Industrial Automation’ by Guru Gobind Singh Polytechnic, Nashik on 07/12/2021.
18. Expert Talk on "Mechatronics Systems and its Applications" for G. P. Kolhapur dated 10/12/2021.
19. Expert Talk on “Mechanics in Machining of Biomaterials’ in One Week Online Faculty Development Programme on ‘Advances in Manufacturing Processes & Systems’ (AMPS-22) during 21<sup>st</sup> Feb.- 25<sup>th</sup> Feb., 2022.
20. Expert Talk on “Computer Integrated Manufacturing” in One Week Online Faculty Development Programme on ‘Industry 4.0: Current Status and Future Trends during 7<sup>th</sup> – 11<sup>th</sup> March, 2022.
21. Expert Talk on "Computer Integrated Manufacturing Towards Industry 4.0" for MET IOT Polytechnic, Nashik dated 23/02/2024.

## **WORK DONE FOR SOCIETY**

1. Acted as a Jury Member in District Level Project Competition on 9<sup>th</sup> March, 2022 conducted by Guru Gobind Singh Polytechnic, Nashik in association with DTE, RO, Nashik.
2. Acted as a Jury Member in National Level Tech-Fest “SUN TECH 2K21” on 3<sup>rd</sup> & 4<sup>th</sup> of June, 2021 conducted by Sandip University, Nashik.
3. Acted as a Jury Member in Examiners Panel of DIPEX – 2018 (A State Level Project Competition) conducted by ABVP, Maharashtra at Sangli.
4. Acted as a Jury Member in Examiners Panel of DIPEX – 2017 (A State Level Project Competition) conducted by ABVP, Maharashtra at Pune.
5. Acted as a Jury Member in Examiners Panel of DIPEX – 2015 (A State Level Project Competition) conducted by ABVP, Maharashtra at Nashik.

## **ADDITIONAL SKILLS**

1. Qualified and Approved Internal Quality Auditor for ISO/TS- 16949 (2002) for Industrial Product, Process & System Audit
2. Certified Trainer of Basic Fire Prevention and Fighting for Industry
3. Certified Trainer of Basic Life Support- First Aid for Industry
4. Expert in Lean Manufacturing System Implementation
5. Expert in Difficult-to-cut materials & Biomaterial’s processing (Manufacturing)
6. Expert in Design and Manufacturing of advanced Devices/equipments for advanced farming.

## **RESEARCH /OTHER GRANTS**

1. Organized MSBTE sponsored One week Training Programme on ‘Advances in Manufacturing Processes, Systems and Materials (AMPSM) and received grant of **Rs. 50,000/-** for conduction of programme in Dec. 2012.
2. Organized MSBTE sponsored One week Training Programme on ‘Modern Techniques of Material Testing (MTMT) and received grant of **Rs. 70,000/-** for conduction of programme in Jan. 2015.
3. Organized DTE, Mumbai sponsored One week Training Programme on ‘Excellence in Manufacturing Engineering’ and received grant of **Rs. 1,80,000/-** for conduction of programme in Jan. 2017.
4. Organized DTE, Mumbai sponsored One week Training Programme on ‘Advances in Manufacturing Processes & Systems’ (AMPS-22) and received grant of **Rs. 1,24,480/-** for conduction of programme in Feb. 2022.
5. CSR Fund of **Rs. 25,00,000/-** from Epiroc Mining India Ltd. for set up of Industrial Automation Lab at G. P. Nashik.

**Dr. Ketan Anandrao Jagtap**

Date: 01/01/2025