|  |  |
| --- | --- |
| **Prof. Dr. Nilesh G. Patil**  C:\Users\VP-NGP\Desktop\New folder\NIlesh\NGP passposrt photo Oct 2020.JPG  Professor and Director  Department of Mechanical Engineering,  Marathwada Institute of Technology,  Beed Bypass, Aurangabad. 431 005, Maharashtra. India.  E-mail: [nileshgpatil@rediffmail.com](mailto:nileshgpatil@rediffmail.com), [ngpatil2007@gmail.com](mailto:ngpatil2007@gmail.com)  Mobile: 9028887885, 9421084764 |  |

Total Working Experience : 27 Years

Teaching and Research Experience : 25 Years

Industrial Experience : 02 Years

Major Areas of Research : Sustainable Machining

Non-Conventional Machining

Additive Manufacturing

Machining of Composite Materials

Machining of Aerospace Alloys, etc.

**SALIENT CAPABILITIES:**

* Leadership with clear vision
* People development
* Passion for Research and Innovation
* Creativity and resourcefulness
* Strategy and planning
* Growth driven empaneled to organizational goals
* Specialized ability in communication, and management
* Skilled in instructor evaluation, and student engagement
* Strong team building through motivation, and development

**---------------------------------------------------------------------------------------------------------------EDUCATIONAL DETAILS:**

**2013: Doctor of Philosophy (Ph.D. - Mechanical Engineering)** from theDr. Babasaheb Ambedkar Technological University, Lonere. Maharashtra. India.

Thesis Title: “Some Investigations into Wire Electro-Discharge Machining of Ceramic Reinforced Aluminium Matrix Composites.” Guide: Prof. P. K. Brahmankar.

**2005: Master in Technology (M. Tech. - Manufacturing Engineering**) from the Dr. Babasaheb Ambedkar Technological University, Lonere. Maharashtra. India.

**1994: Bachelor of Engineering (B. E. - Production Engineering)** from the Dr. Babasaheb Ambedkar Marathawada University, Aurangabad. Maharashtra. India.

**EMPLOYMENT RECORD:**

**Principal/Director**: Marathwada Institute of Technology (MIT), Abad July ‘16- till date

**Vice Principal**: MIT, Aurangabad Jan‘15 to July ‘16

**Head of Mechanical Department**: MIT, Aurangabad July’12 to Dec ‘14

**Professor:** MIT, Aurangabad July ’13 to date

**Associate Professor:** MIT, Aurangabad Jan ‘11 to June 13

**Asst. Professor ( 5th Pay scale)**: MIT, Aurangabad Jan ‘09 to Jan ‘ 11

**Training and Placement Officer**- MIT, Aurangabad Jan ’07 to Jan ‘09

**Lecturer**- Jawaharlal Nehru COE, Aurangabad Jan 97 to March ’06

Total Industrial experience of two years combined in VAL Aurangabad, Anurang Engineering Aurangabad and Micro-dash consultants, Aurangabad

**A. Academic and Research Activities:**

**a) Teaching:**

Subject Taught-

Composite Materials (P.G), Manufacturing Process Modeling (P.G.), Advanced Machining Science (PG), Theory of Metal Forming, Engineering Metallurgy, Production Process, Nonconventional Machining Processes, Machine Tools, Industrial Engineering, Design of Machine Elements.

Visiting Lectures**-**

Post-graduation course (South African batch) at Indo German Tool Room,in the year 2004-2005, Aurangabad.

**b) Ongoing/Completed Research Projects:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Project Title** | **Funding Agency** | **Nature of the Project** | **Position** | **Duration** | **Project Cost (INR)** |
| **1.** | Development of microreactor | RGSTC, Govt. of Maharashtra |  | Co- Investigator |  | 63 Lakhs |
| **2.** | Photochemical Machining of metals | TEQIP – III |  | Co- Investigator | Completed | 3.50 Lakhs |
| **3.** | Application of bio-nano cutting fluids in the machining of difficult to cut materials | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | Minor research project |  | Completed | 35,000/- |
| **4.** | MSME Innovation Lab | giz |  | Coordinator | Completed | 1620000/- |
| **5.** | Additive Manufacturing. of Functionally graded metallic materials\* | International Cooperation (Bilateral) Programme |  |  | *\*Submitted for approval and not accepted* |  |

**c) Publications:**

1. Determination of optimal performance in wire electrical discharge machining of Al/Al2O3/22p composites using response surface methods and grey relational analysis, Nilesh G. Patil, Australian Journal of Mechanical Engineering, <https://doi.org/10.1080/14484846.2021.1977454>, September 2021.
2. Semi-empirical modeling of surface finish in wire electrical discharge machining of ceramic particulate reinforced aluminium matrix composites, N.G. Patil, P.K. Brahmankar, Procedia CIRP 42 ( 2016 ) 280 – 285
3. On the effects of wire electrode and ceramic volume fraction in wire electrical discharge machining of ceramic particulate reinforced aluminium matrix composites, N.G. Patil, P.K. Brahmankar, D. G. Thakur, Procedia CIRP 42 ( 2016 ) 286-291.
4. Some studies into wire electro-discharge machining of alumina particulate-reinforced aluminum matrix composites, N.G.Patil and P.K.Brahmankar. The International Journal of Advanced Manufacturing Technology, Volume 48, Numbers 5-8, 537-555, DOI: 10.1007/s00170-009-2291-5, 2010 (
5. Determination of material removal rate in wire electro-discharge machining of metal matrix composites using dimensional analysis, N.G.Patil and P.K.Brahmankar, The International Journal of Advanced Manufacturing Technology, vol. 51, pp. 599-610. DOI: 10.1007/s00170-010-2633-3, 2010 .
6. Some investigations into wire electro-discharge machining of Al/SiCp composites, N.G.Patil and P.K.Brahmankar, Int. J. Machining and Machinability of Materials, Inderscience Publishers, UK, Vol. 1, No. 4, pp.412–431, 2006.
7. Experimental Investigations into Abrasive Waterjet Machining of Carbon Fiber Reinforced Plastic (CFRP), Prasad Unde, N.G. Patil, Journal of Composites, 2015, vol.2015. pp. 9.
8. Comparative study of high-speed machining of Inconel 718 in dry condition and by using compressed cold carbon dioxide gas as coolant, N, G. Patil, Ameer Asem, R.S. Pawade, D.G. Thakur, P.K. Brahmankar, Procedia CIRP (Elsevier), 24, pp. 86-91. doi:10.1016/j.procir.2014.08.009, 2014.
9. Some investigations on the combined effects of ceramic reinforcements and process parameters in WEDM of MMCs., N.G.Patil and P.K.Brahmankar, Journal of Machining and Forming Technology, ¼, PP. 113-128. NOVA Science Publishers, USA, 2009.
10. On the Response Surface Modelling of Wire Electrical Discharge Machining of Al/SiCp Metal Matrix Composites (MMCs), N.G. Patil and P.K. Brahmankar, pp. 47-70, NOVA Science Publishers, USA, 2010.
11. Experimental Evaluation of Effects of Die Angle on Hardness and Surface Finish of Cold Forward Extrusion of Aluminium, G. A. Choudhary, N.G. Patil, Int. Journal of Emerging Technology and Advanced Engineering, vol. no. 2, issue 7, pp. 334-338, 2012.
12. Investigations into machining of Inconel 718 by using Adaptive Fuzzy Based Inference System, Pravin P. Pande, Nilesh G. Patil, International Journal of Engineering Research & Technology, Vol. 3 Issue, pp. 1981-1987, 2014.
13. [Powder Mixed Micro-Electric Discharge Machining—A Review](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=ukg3hbsAAAAJ&sortby=pubdate&citation_for_view=ukg3hbsAAAAJ:zA6iFVUQeVQC), RH Shinde, DN Raut, NG Patil, SR Dharmadhikari, Innovations in Mechanical Engineering, 311-317
14. Experimental investigations into wear characteristics of M2 steel using cottonseed oil, N.G. Patil, S.M. Agrawal, S.V.Lahane, P.K. Brahmankar, Procedia Engineering (Elsevier), 97, pp. 4-14. doi:10.1016/j.proeng.2014.12.218, 2014.
15. Experimental study on the effects of different grinding fluids in cylindrical grinding of Inconel 718, S.B. Charthankar, and N.G. Patil, International Journal of Applied Engineering Research, vol. 10 (54), pp. 55-61, 2015.
16. Experimental investigations of cutting parameters influence on surface roughness in machining titanium alloy (Ti-6Al-4V) using TiAlN PVD coated carbide inserts under dry environment, H.K. Karkade, N. G. Patil, Journal of Applied Physical Science International, vol. 4, issue 1, pp. 45-50, 2015.
17. Investigations into Wire Electro-Discharge Machining of A6061/Al2O3p Composites, Vishali Baisane, N. G. Patil, S. V. Lahane, R.S. Pawade, P. K. Brahmankar, Advances in Intelligent Systems Research. Vol. 137, pp. 94-99, 2017.
18. Experimental Investigations into Powder-Mixed Electrical Discharge Machining (PMEDM) of HCHCr D2 Die Steel, R. H. Shinde, N. G. Patil, D. Raut, R.S. Pawade, P. K. Brahmankar, Advances in Intelligent Systems Research. Vol. 137, pp. 298-303, 2017.
19. Investigation of Microstructure and Mechanical Properties of AlTiCrN, AlCrN Coatings Deposited by Advance Sputtering Technique, Atul Kulkarni, G. Joshi, N. G. Patil, V. G. Sargade, Advances in Intelligent Systems Research. Vol. 137, pp. 298-303, 2017.
20. Effect of Cutting parameters, Point angle, and reinforcement percentage on surface finish, in drilling of AL6061/Al2O3p MMC, Procedia Manufacturing, Vol. 20, pp. 02-11.
21. The Effect of Karanja based Soluble Cutting Fluid on Chips Formation in Orthogonal Cutting Process of AISI 1045 Steel, Procedia Manufacturing, vol. 20, pp. 12-17.
22. Experimental Investigations into Turning of Hardened AISI 4340 Steel using Vegetable-based Cutting Fluids under Minimum Quantity Lubrication, Procedia Manufacturing, vol. 20, pp. 18-23.
23. Wire electro-discharge machining of metal matrix composites: A review, Procedia Manufacturing, vol.20, pp. 41-52.
24. A perspective on shaping of advanced ceramics by electro-discharge machining, Procedia Manufacturing, vol. 20, pp. 65-72.
25. Mechanical Characterization and Machining of Squeeze Cast AZ91D/SiC Magnesium based Metal Matrix Composites, Procedia Manufacturing, Vol. 20, pp. 97-105.
26. Experimental study of non-edible vegetable oil as a cutting fluid in machining of M2 Steel using MQL, Procedia Manufacturing, Vol. 20, pp. 207-211.
27. The Experimental Investigations into Dry Turning of Austempered Ductile Iron, Procedia Manufacturing, Vol. 20, pp. 227-232.
28. Drilling of Ceramic Reinforced Aluminium Matrix Composite under Dry Condition, Sachin Agrawal, Nilesh G. Patil, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-4, pp. 3029-3033, February 2020.
29. Drilling of Ceramic Reinforced Aluminium Matrix Composite under Minimum Quantity Lubrication using Bio Cutting Fluid, Sachin Agrawal, Nilesh G. Patil, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-4, pp. 3172-3178, February 2020.
30. WEDM of Metal Matrix Composites, N.G.Patil, P.K.Brahmankar and D.G Thakur, International meeting on composite materials: Advancing with Composites -2005, Naples, Italy, Oct. 2005.
31. Wire Electric Discharge Machining of Al/SiCp composites, N.G.Patil, P.K.Brahmankar and D.G. Thakur, accepted for International conference on composites/Nano Engineering -12 (ICCE-12), Tenerife, Spain, 2005.
32. Electric Discharge machining characteristics of metal matrix composites, N.G.Patil, P.K.Brahmankar, D.G. Thakur and A.A.Pawar, International Conference (ICSCI 2006), Hyderabad, India, January 2006.
33. A study on kerf and cutting rate into WEDM of Al/SiCp composites using Taguchi methods, N.G.Patil, P.K.Brahmankar and D.G. Thakur, 7thInternational Conference on Tooling (Tool -06), Turin, Italy, May 2006.
34. Multi-Objective optimization of wire electro-discharge machining of metal matrix composites using Taguchi-Grey relational analysis, N.G. Patil, P.K. Brahmankar and A.A.Ghatol, The 5th International Conference on Materials Processing for Properties and Performance, Institute of Materials(East Asia), Singapore, December 2006.
35. An investigation into surface finish in Grinding of metal matrix composites using Taguchi-Grey relational analysis, P.K. Brahmankar, R.S. Pawde, and N.G. Patil, The 5th International Conference on Materials Processing for Properties and Performance, Institute of Materials(East Asia), Singapore, December 2006.
36. An investigation of surface roughness in grinding of Al-Al2O3 metal matrix composites (MMCs), R.S. Pawde, and N.G. Patil, International conference on materials processing and characterization (AMPC 2006), Chennai, August 2006.
37. Experimental investigations on airlift loop, L.S. Pawar, N.M.Rao and N.G.Patil, International Conference (ICSCI 2006), Hyderabad, India, January 2006.
38. Some investigations into Multi-objective optimization of Wire Electro- Discharge Machining of Al/SiCp composites, N.G.Patil, P.K.Brahmankar and L.G.Navale, ASME International Manufacturing Science and Engineering Conference, Atlanta, GA, USA to be held during October 15 to October 18, 2007 (Cited by 2).
39. On the Optimization into Wire Electro-Discharge Machining Of Al/Al2o3p Composites, N.G.Patil, P.K.Brahmankar and L.G.Navale, ASME International Mechanical Engineering Congress and Exposition, Atlanta, GA, USA to be held during October 15 to October 18, 2007.
40. Some investigations on surface characteristics of WEDM machined Metal Matrix Composites, 23rd AIMTDR, IIT-Madras, Chennai, December 2008.
41. Response Surface Modeling and Optimization of Electro-Discharge Machining of Al/Al2O3p, ASME International Mechanical Engineering Congress and Exposition, November 13–19, 2009, Lake Buena Vista, Florida, USA.
42. Machining of Titanium and its Alloys - a Review, The proceedings of ICAMB-2012, Vellore Institute of Technolgy, H.K. Karkade, N. G. Patil.
43. Effect of Oxycat On Emissions Like HC, CO, NO On a single Cylinder diesel Engine With And Without Sensors” A.A. Pawar and N.G. Patil Instrumentation And Control, Organized By I.S.O.I and Pune Institute of Engineering And Technology, Pune, December 2004.
44. [Experimental Investigations into Powder-Mixed Electrical Discharge Machining (PMEDM) of HCHCr D2 Die Steel](https://www.researchgate.net/publication/311844042_Experimental_Investigations_into_Powder-Mixed_Electrical_Discharge_Machining_PMEDM_of_HCHCr_D2_Die_Steel?ev=prf_pub), R.S. Shinde, Nilesh G. Patil, ICMMD, BATU, Lonere, December 2016.
45. [Modelling of Surface roughness using response surface methodology in wire electrical discharge machining of Ti6Al4V alloy](https://www.researchgate.net/publication/311844024_Modelling_of_Surface_roughness_using_response_surface_methodology_in_wire_electrical_discharge_machining_of_Ti6Al4V_alloy?ev=prf_pub), R. V. Deshmukh, Nilesh G. Patil at ICMMD, BATU, Lonere, December 2016.
46. [Effects of Karanja Oil in Water Based Cutting Fluid on Surface Roughness and Tool Wear during Turning of AISI 1045 Steel](https://www.researchgate.net/publication/311843786_Effects_of_Karanja_Oil_in_Water_Based_Cutting_Fluid_on_Surface_Roughness_and_Tool_Wear_during_Turning_of_AISI_1045_Steel?ev=prf_pub), Sachin Agrawal, Nilesh G. Patil at ICMMD, BATU, Lonere, December 2016.
47. [Investigations into Wire Electro-discharge Machining of A6061/Al2O3p Composites](https://www.researchgate.net/publication/311843705_Investigations_into_Wire_Electro-discharge_Machining_of_A6061Al2O3p_Composites?ev=prf_pub), Vaishali Baisane, Nilesh G. Patil, P.K. Brahmankar at ICMMD, BATU, Lonere, December 2016.
48. [Application of Vegetable-based Cutting Fluids during Turning of AISI 316 SS under Minimum Quantity Lubrication](https://www.researchgate.net/publication/311773474_Application_of_Vegetable_based_Cutting_Fluids_during_Turning_of_AISI_316_SS_under_Minimum_Quantity_Lubrication?ev=prf_pub), Laxman Jadhav, Shrikant Gunjal, Nilesh G. Patil at ICMMD, BATU, Lonere, December 2016.
49. Role of Cutting Fluids under Minimum Quantity Lubrication: An Experimental Investigation of Chip Thickness. Shrikant U. Gunjal, Sudarshan B. Sanap, Nilesh G. Patil at IMMT 2019, BIT’s Pilani, Dubai Campus, November 2019.
50. Wire electro-discharge machining of Al/SiCp Composites, N.G. Patil, P.K. Brahmankar and D.G. Thakur, Fourth national conference on Precision Engineering ‘COPEN-2005’, Jadavpur University, Kolkata.
51. Molecular Manufacturing: The State-Of-The-Art, N.G. Patil, P.K. Brahmankar, D.G. Thakur and M. Sadaiha, National Conference on Advanced Manufacturing and Robotics, January 2004 CMERI (Central Mechanical Engineering Research Institute), Durgapur, West Bengal.
52. Molecular Nanotechnology: The State-Of-The-Art, N.G. Patil, A.A. Pawar, and J.D. Bagul, National Conference on Advances in Mechanical Engineering, April 2004, J. D. College Of Engineering and Technology, Yawatmal, Maharashtra.
53. Nanorobotics: the-state-of-the-art, N.G. Patil, A.A. Pawar, and B.A. Patil, National Conference on Emerging Trends in Mechatronics, July 2004, MIT Aurangabad.
54. Genetic Algorithms: search optimization and machine learning, B.A. Patil and N.G. Patil, National Conference on Emerging Trends in Mechatronics, July 2004 at MIT Aurangabad.
55. Nanomanipulation by SPMs: The State-Of-The-Art, N.G. Patil, P.K. Brahmankar and A.A. Pawar, National conference on advances in Mechanical Engineering, PCCE Goa, September 2004.
56. Combustion control and sensors, A.A. Pawar, and N.G. Patil, National Conference on Emerging Trends in Mechatronics, July 2004 at MIT Aurangabad.
57. Modeling and Simulation, N.G. Patil, A.A. Pawar, and R.D. Kokate, National Conference on Emerging Trends in Mechatronics, July 2004, MIT Aurangabad.

**d) Author of Book Chapters:**

1. Contributed one chapter titled “Role of Bio-cutting Fluids Under Minimum Quantity Lubrication: An Experimental Investigation of a Sustainable Machining Technique”, Advances in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering, <https://doi.org/10.1007/978-981-33-4320-7_63>, 2021, Springer Publishers.
2. Contributed one chapter titled “On combined effects of ceramic reinforcements and process parameters in WEDM of MMCs’ of the book entitled `Machining and Forming Technology’ – vol. 1. ed. J. Paulo Davim – Nova Science Publishers, New York, USA.
3. Contributed one chapter titled “On the Response Surface Modelling of Wire Electrical Discharge Machining of Al/SiCp Metal Matrix Composites (MMCs)’ of the book entitled `Machining and Forming Technology’ – vol. 2. ed. J. Paulo Davim – Nova Science Publishers, New York, USA.

**e) Book**

1. Machinability issues in α-β Titanium alloy (Ti-6Al-4V), Lambert Academic Publication, Hemant Karkade, Nilesh Patil

**f) Patents**

**1.** Title of the invention: SYSTEM FOR UTILIZATION OF WASTE ETCHANT INPHOTOCHEMICAL MACHINING (Status: Published)

**2.** Title of the invention: AUTOMOTIVE VEHICLE HEALTH MONITORINGANDDAMAGE 424 DETECTION SYSTEM USING MICROSTRIP AND NANOSTRIP ANTENA (Status: Published)

**g) Reviewer of Peer-Reviewed International Journals:**

1. International Journal of Machining and Machinability of Materials, Inderscience, U.K.
2. International Journal of Advanced Manufacturing Technology, Springer, USA.
3. Journal of Engineering Manufacture, Springer, USA.
4. Materials and Manufacturing Processes, Taylor & Francis, UK.
5. Journal o Composite Materials, Sage Publishers, UK.
6. Journal of Machining and Forming Technology, Nova Science, USA.
7. Journal of Manufacturing Research, NOVA Science, USA.
8. Proceedings of Institution of Mechanical Engineers Journal of Engineering Manufacture, Sage Publishers.
9. ASME 2007 International Manufacturing Science and Engineering Conference, Atlanta, GA, USA.
10. Journal of Brazilian Society of Mechanical Engineering, Springer.
11. ISEM –18, April 2016, Tokyo, Japan.
12. ISEM–19, April 2018, Procedia CIRP, Bilbao, Spain.
13. ISEM–20, June 2020, Procedia CIRP, Zurich, Switzerland.

**h) Citations:**

* More than 700 citations : i10 index – 18, H index - 14: <https://scholar.google.com/citations?user=ukg3hbsAAAAJ&hl=en>
* <https://www.researchgate.net/profile/Nilesh_G_Patil>
* <https://orcid.org/0000-0002-4884-4267>
* [Scopus Author ID: 23095532000](http://www.scopus.com/inward/authorDetails.url?authorID=23095532000&partnerID=MN8TOARS) Web of Science ResearcherID [](https://publons.com/dashboard/summary/)  
  [AAD-4342-2019](https://publons.com/researcher/AAD-4342-2019/)

**i) Supervision of M. E. Dissertation:**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Name of the Student** | **Topic** |
| **1.** | Mr. P.P. Pande (2011) | Investigations into turning of Inconel-718 using design of experiment and Adaptive Neuro-Fuzzy Inference System. |
| **2.** | Mr. H. B. Karkade (2012) | Investigations into machining of α-β Titanium alloy (Ti-6Al-4V) using TiAlN coated carbide under dry and compressed CO2 cooling environment. |
| **3.** | Mr. G.A. Chaudhari (2012) | Experimental evaluation of the effects of die geometry on surface finish and hardness in aluminum extrusion. |
| **4.** | Mr. S.M. Agrawal (2012) | Experimental investigations into wear characteristics of M2 steel using cottonseed oil. |
| **5.** | Ms. S.S. Billur (2013) | On the response surface modeling of cutting temperature and surface roughness in machining of some alloys. |
| **6.** | Mr. Ameer Asem (2013) | Comparative study of High-speed turning of Inconel-718 in dry condition and by using compressed cold carbon dioxide gas as a coolant. |
| **7.** | Mr. Prasad Unde (2015) | Experimental investigations into Abrasive Water Jet Machining of Carbon Fiber Reinforced Plastics. |
| **8.** | Mr. Narendra Bhopale (2015) | Experimental Investigations into Dry Turning of Austempered Ductile Iron using Response Surface Methodology. |
| **9.** | Mr. Rajendra Shinde (2015) | Experimental investigations into powder mixed EDM of HCHCr D2 die steel. |
| **10.** | Mr. Sajid Husain Shaikh Mohamad (2015) | Some studies on bio-cutting fluids in turning of AISI 316 stainless steel using minimum quantity lubrication. |
| **11.** | Ms. Vaishali Baisane (2016) | Investigations into wire electro-discharge machining ceramic particulate reinforced aluminium matrix composites. |
| **12.** | Mr. Rupesh V. Deshmukh (2016) | Response Surface Modeling and optimization of wire electro-discharge machining Ti alloys. |
| **13.** | Mr. Chanchal Waval (2017) | Investigations into WEDM of WC-Co composites. |
| **14.** | Mr. Shrikant Gunjal (2017) | [Application of Vegetable-based Cutting Fluids during Hard Turning under Minimum Quantity Lubrication](https://www.researchgate.net/publication/311773474_Application_of_Vegetable_based_Cutting_Fluids_during_Turning_of_AISI_316_SS_under_Minimum_Quantity_Lubrication?ev=prf_pub). |
| **15.** | Mr. Anand Kakde (2018) | Drilling of MMCs. |
| **16.** | Mr. Santosh. Shekokar (2019) | Investigations into abrasive water jet machining of Inconel 625. |
| **17.** | Mr. Sandesh Tajne (2019) | Investigation on SS 316L stainless steel in machining with biodegradable oils as cutting fluids. |

**j) Supervision of Ph.D.:**

* One candidate has successfully defended his Ph.D. Thesis and he has been awarded with the Ph.D.
* Six candidates have been registered for Ph.D. research. The Ph.D. research of these scholars is mainly related to the Machining of Ceramic Matrix Composites, Metal Matrix Composites, and Additive Manufacturing.

**k) Honours, Affiliations, Membership:**

* Executive Council Member, Dr. B.A. Technological University, Lonere (M.S)
* Life Member Indian Society for Technical Education (ISTE),
* Associate Member Institution of Engineers IE (I)
* Executive Council Member, the local center of IE (I), 2004-06.

**B. Interaction with Outside World:**

**a) Institutes Visited Abroad:**

* University of Tokyo, Japan, 2016.
* National University of Singapore, 2015.
* Korean Institute of Carbon Convergence Technology (KCTECH), South Korea, 2014.

**b) Invited Talks:**

|  |  |
| --- | --- |
| **Sr. No.** | **Topic** |
| **1.** | Invited speaker for Institution of Engineers (I), Aurangabad local center on “Nanotechnology” 2005. |
| **2.** | Delivered lecture talk on “Molecular manufacturing” AICTE Staff development program on “Nano-technology: Opportunities and Challenges”, at Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, December 2005. |
| **3.** | Delivered lecture talk on the “Nanotechnology” STTP program on Nanotechnology: Opportunities and Challenges, at K.K. Wagh College of Engineering, Nashik, January 2007. |
| **4.** | Delivered lecture talk on “How to prepare and write a research paper” in a two-day program on ‘Research Methodology’ at MIT, Aurangabad, 2013. |
| **5.** | Delivered lecture talk on “How to prepare for dissertation and research projects” at Maharashtra Institute of Technology, Aurangabad, 2012. |
| **6.** | Delivered lecture talk on “Modeling of Manufacturing Processes” DST sponsored STTP program on Modeling and Simulation, at Maharashtra Institute of Technology, Aurangabad, June 2016. |
| **7.** | Delivered lecture talk on “Advanced Manufacturing Techniques” DTE sponsored STTP program on Excellence in Manufacturing, at Government Polytechnic, Nashik, August 2016. |
| **8.** | Delivered lecture talk on “Machining of MMCs: Challenges and Opportunities” TEQIP III sponsored STTP on Advances in Materials and Mfg. technology’, at MIT, Aurangabad, March 2019. |

**C. Major Assignments:**

**a) Administrative Activities:**

* Member Board of Studies, Mechanical Engineering, Dr. BAMU, Aurangabad
* Associate Dean, Dr. B.A. Technological University, Lonere ( 2018 till date)
* Headed the institute level committee for AICTE affiliation (Web Portal) 2012-13.
* Headed the institute level committee for University affiliation for 2012-13.
* Headed the institute level committee for TEQIP 2010-11.
* Active participation in ISO and NBA related work.

**b) Organization of the Conference:**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Role** | **Conference** |
| **1.** | Convener | 2nd International Conference on Materials, Manufacturing, and Design Engineering (iCMMD2017) during 11th and 12th December 2017. |
| **2.** | Guest Editor | Guest Editor of a special issue of iCMMD2017 published in ‘Procedia Manufacturing’ by Elsevier. |

**References:**

|  |  |
| --- | --- |
| 1. **Prof. P.K. Brahmankar** | 1. **Prof. D.G. Thakur** |
| Former Professor, Department of Mechanical Engineering, at DBATU, Lonere | Professor, Department of Mechanical Engineering |
| Former Professor Emeritus, Department of Production Engineering College of Engineering Pune (COEP), Pune | Defense Institute of Advanced Technology, Pune |
| Email: [pkbrahma@yahoo.com](mailto:pkbrahma@yahoo.com),  Mobile: 9423217887 | Email:[dinnu74@yahoo.com](mailto:dinnu74@yahoo.com), [thakur@diat.ac.in](mailto:thakur@diat.ac.in),  Mobile: 8390070781, 9096090173 |

**Personal Details:**

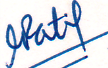
Name : Nilesh Ganpatrao Patil

Nationality : Indian

Marital Status : Married

Date of Birth : 21st July 1972

Languages Known : English, Hindi, and Marathi.

****

**(Nilesh G. Patil)**