

Curriculum Vitae of Dr Mudigonda Sadaiah



01. Name : Dr Mudigonda Sadaiah
Designation : Professor and Head
Address : Department of Mechanical Engineering
Dr. Babasaheb Ambedkar Technological University,
Lonere-402 103, Tq: Mangaon
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03. Date of Joining in the Institute : 19.01.1994

04. Educational Qualifications:

| Institute / University | Degree | Year | Field of Specialization | Division obtained |
|--|---------------|------|---------------------------|-------------------|
| Kakatiya Institute of Technology and Science, Warangal / Kakatiya University, Warangal | BTech (Mech.) | 1990 | Mechanical Engineering | First |
| University College of Engineering/ Osmania University, Hyderabad | ME (Mech.) | 1992 | Production Engineering. | First |
| PSG College of Technology, Coimbatore / Bharatiyar University, Coimbatore | PhD (Mech.) | 2003 | Manufacturing Engineering | - |

5. Work Experience:

| Sr. No. | | Institute / Organization | Designation | Number of Years |
|---------|----------|----------------------------|---------------------|-----------------|
| 1 | Teaching | 1. Dr. B. A. T. U., Lonere | Professor | Since 01/8/2012 |
| | | 2. Dr. B. A. T. U., Lonere | Associate Professor | 8 years |
| | | 3. Dr. B. A. T. U., Lonere | Lecturer | 10 years |

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| 2 | Research | PSG College of Technology, Coimbatore | Research Scholar (Under QIP Program) | 03 years |

06. Areas of Interest:

- CAPP/CAD/CAM/CIM, Micromachining/Machining of Advanced Materials/Tool Condition Monitoring/Photochemical Machining/Machining of Bio-materials

07. Area of Specialization : Manufacturing Engineering

08. PhD Thesis Title : “An Integrated Computer Aided Process Planning System for Prismatic Components”

09. Special Distinctions/Scholarships Earned:

- Merit scholarship holder at high school level
- Second rank holder in post-graduation (ME)

10. Computer Software Packages /Languages Known:

- Solidworks 98Plus, Visual Basic 6.0, Oracle, C-language, MS Office, CNC Programming and Simulation

11. Languages Known:

- Telugu - Mother Tongue
- Hindi - Passed High School Examination
- English- Passed High School Examination
- Marathi-Passed Higher Examination (which is meant for class one posts)

12. Subjects Taught at Under Graduate and Post Graduate Level:

| Sr. No. | PG/UG Level | Number of years | Courses Taught |
|----------------|--------------------|------------------------|--|
| 1 | MTech | 15 | Processing of Advanced Materials, Metal Forming Processes |
| 2 | BTech | 25 | CAD/CAM, CNC and Microprocessor Applications, Tool Engineering, Metrology and Quality Control, Engineering Metallurgy, Production Engineering, CNC and Tool Design, Engineering Drawing, Manufacturing Processes -II, Manufacturing Processes -III, and Mechatronics, Materials Science and Metallurgy |

13. Participation in:

i. Collaboration (Industrial/Institutional):

- Six projects (product based) under TEQIP II INN ‘Innovation Networking Project’ (2014-2015) in collaboration with Institute of Chemical Technology, Mumbai.

| Sr. No. | Name of the project/ Position held | Funding Agency | From | To | Name and Address of Company / Organization |
|---------|--|----------------|------------|------------|--|
| 1 | PO1: Microchannel reactors for highly exothermic and high pressure and high temperature systems | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |
| 2 | PO2: Sensors for pesticides and biological species in water management and therapeutic materials | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |
| 3 | PO3: Continuous and tunable Microwave assisted Microreactor system for chemical reactions. | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |
| 4 | PO5: Continuous and tunable Cavitation system for chemical reactions. | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |
| 5 | PO6: Ultrasonic Assisted sub-liter size continuous water purifier. | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |
| 6 | P13: Polymer-Metal composite stent(s) for drug delivery in angioplasty. | TEQIP-II INN | April 2014 | April 2016 | DBATU, Lonere collaboration with ICT, Mumbai |

- Worked in the area of Photochemical Machining in collaboration with Bhabha Atomic Research Centre, Mumbai.
- Worked on a consultancy project worth of 2.7 Lacs on “Machinability of SS303 and SS304L” for M/s Mukand Ltd, Thane.

ii. Students’ Projects (B.Tech.):

| Sr.No. | Title of the Project | Year | Inhouse/Sponsored |
|--------|---|------|-------------------|
| 01 | Design and Manufacturing of Press Tool Die | 1998 | Sponsored |
| 02 | Study and Analysis of Air Brake System of Passenger Bogie (Railway) | 2003 | Sponsored |
| 03 | Computer Aided process Planning System for Rotational Components (Variant Type) | 2003 | In-house |
| 04 | Some Studies on Machining of Inconel 718 | 2003 | In-house |
| 05 | Computer Aided Process Planning System for | 2004 | In-house |

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| | Prismatic Components (Variant Type) | | |
| 06 | Computer Aided process Planning System for Rotational Components (Variant Type) | 2004 | In-house |
| 07 | Assembly Line Balancing: A Case Study | 2005 | Sponsored |
| 08 | Design and Fabrication of Nano-delivery Pin | 2005 | In-house |
| 09 | Some Studies on Nano-delivery Pin | 2006 | In-house |
| 10 | Estimation of Temperature Distribution in Turning Process of Inconel 718 for PVD, CVD Tools Using FEA | 2006 | In-house |
| 11 | Modelling of Photochemical Machining | 2006 | Sponsored |
| 12 | Some Studies on Machining (Turning) of Inconel 718 with CVD Coated Tools with Chip Breaker | 2006 | In-house |
| 13 | Evaluation of Cutting Force Using FEM Analysis in Turning of Bearing Steel Using Carbide Tools | 2007 | In-house |
| 14 | Mathematical Modelling, Design and Experimentation of Photochemical Machining | 2007 | In-house |
| 15 | Comparative Study of Machinability of SS303, SS304LIM and Process Modified SS304LAHS | 2017 | sponsored |
| 16 | Design and Manufacturing of Cardio-Vascular Stent | 2017 | In-house |

iii. Students' Guidance (MTech):

| Sr. No | Name of the student | Title of thesis | Year of completion |
|---------------|--|---|---------------------------|
| 01. | Mr. Yogiraj B. Dama (MT2002414) | Development of Radio Frequency Quadrupole Vane Structure Using CAD/CAM and Rapid Prototyping Techniques | 2005 |
| 02. | Mr. Ansari Zakir Husain Sajid Husain (MT2003401) | Implementation of Quality maintenance Pillar of T.P.M. using Optimization Techniques | 2005 |
| 03. | Mr. Chittaranjan R. More (MT2003415) | Assembly Line Balancing: A Generalized Solution for Window Winding Switch | 2005 |
| 04. | Mr. Sunil V. Medhe (MT2002408) | Finite Element Modelling of Strip Curvature During Hot Rolling | 2005 |
| 05. | Mr. Khandu B. Gavali (MT2002405) | Design and Development of Piercing Mill Tools for Seamless Tubes | 2005 |
| 06. | Mr. Bhadane M.S. (MT2003402) | Deformation Diffusion Bonding of Aluminium and Aluminium alloys (6061) with stainless steel (AISI 304) | 2005 |
| 07. | Mr. Atul P. Kulkarni (MT2003407) | Microcontroller Based Computer Aided Oxy-Fuel Profile Cutting System | 2006 |
| 08. | Mr. Dilip S. Khedekar | Optimization of Nickel Chromium | 2006 |

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|-----|---|--|------|
| | (MT2003406) | Electroplating Process | |
| 09. | Mr. Shahapure N.B. | Design Cable take-up Mechanism for Mobile Robot used for in-service Inspection of Reactor Vessel | 2006 |
| 10. | Mr. Nimbalkar D.H. (MT2002416) | Analysis of Drawbead for Non-symmetric Components to Avoid Cracking and Wrinkling using Finite Element Method | 2006 |
| 11. | Mr. Irfan K. Sayyad (MT2004407) | Some Studies on Effect of Increasing Semi Die Angle on Force Required for Tube Drawing And Process Simulation | 2007 |
| 12. | Mr. Kuldeep A. Mahajan (MT2005407) | Some Studies on Inaccuracies in Diamond Turning | 2007 |
| 13. | Mr. Nitin D. Misal (MT2002409) | Some Studies on Process Parameters Optimisation of Photo Chemical Machining of Copper Substrate by Ferric Chloride Etchant | 2007 |
| 14. | Mr. Devendra P. Agrawal (MT2006401) | Some Studies on Process Parameters Optimization of Photo Chemical Machining on Stainless Steel-304 | 2009 |
| 15. | Mr. Dnyaneshwar S. Mhaskar (MT2005403) | Analysis of Tearing, Wrinkling and Spring Back Effect in Flanged U Channel | 2009 |
| 16. | Mr. Ghar D.V. (MT2005408) | Some Studies on Machining of 316L Stainless Steel by using PCM | 2009 |
| 17. | Mr. Ranjit S. Patil (MT2007403) | Some Studies on Process Parameters of AISI 301 and AISI 430 Stainless Steel | 2010 |
| 18. | Mr. Deepak M. Naigade (MT2004405) | Some Investigations in Hard Turning of AISI 4340 Alloy Steel in Differential Cutting Environments by CBN Insert | 2010 |
| 19. | Mr. Devkare S. V. (MT2007407) | Optimization of Process Parameters of PCM of OFHC copper | 2011 |
| 20. | Mr. Atul R Saraf (MT2009407) | Some Studies on 3D Photo Chemical Machining | 2011 |
| 21. | Mr. Tashkand B. Sawant (MT2009408) | Some Investigations on Machining of Monel400 using Photo Chemical Machining | 2012 |
| 22. | Mr. Prabhakar M. Shinde (MT2010407) | Manufacturing of Micro Channel using Photo Chemical Machining | 2013 |
| 23. | Mr. Shrikant B. Thorat (MT2011404) | Design and Manufacturing of Stent for Cardiovascular Application using PCM | 2013 |
| 24. | Mr. Makarand M. Kolekar (MT2012406) | Some Investigation on Manufacturing of Stent for Cardiovascular Application by using PCM | 2014 |
| 25. | Mr. Sachin D. Farakte (MT2012404) | Fine Line Challenges in Photo Chemical Machining | 2014 |
| 26. | Mr. Manoj A. Mane (MT2013412) | Some Investigations on End milling of AISI 316L | 2015 |

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| 27 | Mr. Jitendra B. Patil (MT2013415) | Some Investigations on Turning of NIMONIC 80A with Ceramic Inserts | 2015 |
| 28 | Mr. Harish G. Holakar (MT2013409) | Some Investigations on End Milling of AISI 321 | 2015 |
| 29 | Mr. Amrutsagar Lalitrao V (MT2013401) | Coronary Stent Manufacturing using Photochemical Machining | 2015 |
| 30 | Mr. Vishwanath M. Chavan (MT2014410) | Some Investigations on Turning of NIMONIC 80A with Alumina Based Ceramic Inserts | 2016 |
| 31 | Mr. Vinod Sampat Lonkar (MT2014406) | Photochemical Machining of Cobalt Chromium L605 Alloy | 2016 |
| 32 | Mr. Abhilash E. Patil (MT2014415) | Some Investigations on End Milling of WE43 Magnesium Alloy with Nano-TiALN Coated Solid Carbide Inserts | 2016 |
| 33 | Mr. Rohit Khake (MT2014416) | Some Investigations on Turning of SAF2507 with PVD Coated Carbide Inserts | 2016 |
| 34 | Mr Rupesh S. Dugad (MT2015405) | Fabrication of Bare Metal Stent using Photochemical Machining | 2017 |
| 35 | Mr. Hareesh S. Mahala (MT2015408) | Some Investigations on Orthogonal Turning of SAF 2205 and SAF 2507 Duplex Stainless Steel using PVD Coated Carbide Inserts | 2017 |
| 36 | Ms Smita V. Bhandare (MT2015401) | Some Investigations on Surface Roughness and Residual Stresses in End Milling of SAF 2205 Duplex Stainless Steel | 2017 |
| 37 | Mr Abhishek Sanjay Deshpande (MT2016405) | LCD Based DLP 3D Printer | 2018 |
| 38 | Mr Ashish Jaysingh Pailwan (MT2016409) | Some Investigations in Surface Topography of Co-Cr Alloy for Bio-Implants using PCM | 2018 |

iv. Students' Guidance (PhD):

| Sr. No | Name of the student | Title of thesis | Year of completion |
|---------------|--|---|---------------------------|
| 01. | Suryakant B. Chandgude (RS20060101) | An Investigation into Cutting Process Dynamics in End Milling using Tool Condition Monitoring | 2015 (Part time) |
| 02. | Nitin D. Misal (RS20090101) | Some Investigations into Photochemical Machining of Inconel Alloy | 2017 (Part time) |

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| 03. | Deepakkumar H. Patil (RS20120113) | Photo Chemical Machining of Monel | 2017 (Full time) |
| 04. | Mr. Atul R Saraf (RS20120114) | Some Studies on the Effect of Process Parameters in Photo Chemical Machining of SS316L | 2017 (Full time) |
| 05. | Mr. Shirish V. Kadam (RS20140117) | Some Investigations on Machinability and Surface Integrity of Duplex Steel in End Milling | 2014 (Full time) On-going |
| 06. | Mr. Shrikant B. Thorat (RS20140115) | Some Investigations in Photochemical Machining of Cobalt Chromium Alloy | 2014 (Part time) On-going |

v. Invited Lectures (National/International):

| Sr.No. | Title of Lecture | Institute/Organization | Date |
|--------|---|---|--------------------|
| 01 | Feature Recognition Techniques and Process planning | PSG College of technology, Coimbatore | August 2001 |
| 02 | An overview of micromachining | Dr. B. A. T. U., Lonere | November 2002 |
| 03 | Some Studies on machining of Inconel 718 | Dr. B. A. T. U., Lonere | August 2003 |
| 04 | CAD/CAM Integration | Amrutvahini College of Engineering, Sangamner | October 2004 |
| 05 | Nanotechnology: Opportunities and Challenges | Dr. B. A. T. U., Lonere | December 2005 |
| 06 | High Impact Teaching Skills | Dr. B. A. T. U., Lonere | 27.2.12 to 29.2.12 |
| 07 | Photochemical Machining | Dr. B. A. T. U., Lonere | 2011 |

vi. Professional Society Activities:

| Sr.No. | Professional body | Type of Membership |
|--------|--|--------------------|
| 01 | Indian Society for Technical Education | Life Membership |
| 02 | Indian Society of Mechanical Engineers | Life Membership |
| 03 | Photochemical Machining Institute of America (PCMI, USA) | Life Membership |

vii. Conferences/Seminars/Winter/Summer Schools organized:

| Sr.No. | Title | Duration | Year |
|--------|---|----------------|------|
| 01 | Advanced Materials and Near-Net-Shape Manufacturing | August 11-22 | 2003 |
| 02 | Nanotechnology: Opportunities and | Decemeber19-31 | 2005 |

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| | Challenges | | |
| 03 | Product Design Engineering (In collaboration with Auto Desk) | September 28 to Oct. 2 | 2018 |

viii. Conferences/Seminars/Winter/Summer Schools Attended:

| Sr. No. | Title | Institute/Organization | Duration | Year |
|---------|---|--|-----------------------------|------|
| 01 | CNC Machine Tools | C.W.I.T., Pune | 15.12.94 to 17.12.94 | 1994 |
| 02 | Japanese Management Philosophies and Techniques for Operations Management | Engineering College Kota, Kota | 15.6.96 to 29.6.96 | 1996 |
| 03 | C-Fundamentals | Walchand Institute of Technology, Solapur | 15.6.98 to 26.6.98 | 1998 |
| 04 | Advanced Manufacturing Technology | I.I.T. Khanpur | 15.3.99 to 27.3.99 | 1999 |
| 05 | Net Shape Manufacturing | PSG College of technology, Coimbatore | One day | 1999 |
| 06 | 19 th AIMTDR conference | Indian Institute of Technology Madras | Three days | 1999 |
| 07 | National Conference on 'Mathematical and Computational Models' | PSG College of Technology, Coimbatore | Two days | 2001 |
| 08 | National Conference on "Recent Advances in Material Processing | Annamalai University, Annamalai Nagar | Two days | 2001 |
| 09 | IPROMM-2000 | Priyadarshini College of Engineering, Nagpur | January 19-20 | 2001 |
| 10 | 12th ISME Conference | Crescent Engineering College, Chennai | January 10-12 | 2001 |
| 11 | Second National Conference on 'Precision Engineering' | PSG College of Technology, Coimbatore | January 11- 12 | 2002 |
| 12 | Opportunities and Challenges in High Precision Manufacturing: Vision 2020 | Dr. Babasaheb Ambedkar Technological University, Lonere. | 18.11.02 to 30.11.2002 | 2002 |
| 13 | Applications of Integral Transform techniques in Science and Engineering | Dr. Babasaheb Ambedkar Technological University, Lonere. | 17.11.03 to 28.11.03 | 2003 |
| 14 | Creep, Fatigue and Fracture: State-of-the-Art | Dr. Babasaheb Ambedkar Technological University, Lonere. | 15.3.04 to 27.3.04 | 2004 |
| 15 | CEP Programme on MEMS: Devices, Applications and Simulation | I.I.T. Bombay | 17.1.05 to 19.1.05 | 2005 |
| 16 | Workshop on Total Quality Management in Technical | Dr. B.A.T.U.-Lonere | 23 rd January | 2006 |

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| | Education | | | |
| 17 | PLC and SCADA | M/s Prolific Systems & Technologies Pvt. Ltd, Pune | 3.4.06 to 8.4.06 | 2006 |
| 18 | Emometrics Tests and Empathetic Communication Training | M/s Luence, Mumbai | 27.3.06 to 01.3.06 | 2006 |
| 19 | Personal Effectiveness for Institutional Development | NITIE Bombay, Mumbai | 10.7.06 to 12.7.06 | 2006 |
| 20 | Low Cost Hi-Tech Automation with Applications | IIT Bombay, Mumbai | 9.3.07 to 13.3.07 | 2007 |
| 21 | Emerging Trends in Tooling for Plastics (national Seminar) | D.J. Sanghvi College of Engineering, Mumbai | 15.11.08 | 2008 |
| 22 | Mission 10X Workshop | Dr. Babasaheb Ambedkar Technological University, Lonere | 7.3.11 to 11.3.11 | 2011 |
| 23 | Advances in Research and Development of Autonomous Robots | E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu | 7.5.12 to 18.5.12 | 2012 |
| 24 | Micromanufacturing | Indian Institute of Technology Kanpur | 5.11.12 to 10.11.12 | 2012 |
| 25 | Inter-Disciplinary aspects of modeling of manufacturing Processes | Indian Institute of Technology Bombay | 2.10.2013 to 6.10.2013 | 2013 |
| 26 | Institutional Building through Appreciative Mindset | Indian Institute of Technology Bombay | August 29, Sept. 2-4, 16, 2013 | 2013 |
| 27 | Hi-Impact Leadership Blue print for Success | By Mr. Shiv Khera The Lalit, Mumbai | 23.7.2014 to 25.7.2014 | 2014 |
| 28 | ASME International Conference on Manufacturing Sciences and Engineering (MSEC2015) | University of North Carolina, Charlotte, North Carolina, USA | 8.6.15 to 12.6.15 | 2015 |
| 29 | Round Table Conference of Technical Universities on Innovations in Engineering Education with Global Perspective: A Blended Approach | JNTU Kakinada | 22.9.15 to 23.9.15 | 2015 |
| 30 | Outcomes-Based Education | Organised by BMS College of Engg., IUCEE and Inpods at Pune | 09.1.16 to 10.1.16 | 2016 |
| 31 | Quality Initiatives in Technical & Higher Educational Institutions (In Compliance with NBA&NAAC Accreditation) | Engineering Staff College of India, Hyderabad | 23.2.16 to 25.2.16 | 2016 |

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| 32 | WOSA 2016 Conference | NBA, New Delhi Theme: Quality Assurance through Outcome Based Accreditation | 18.3.16 to 20.3.16 | 2016 |
| 33 | Outcome Based Education | One Week Faculty Development Program under TEQIP-II organised by Dr. BATU-Lonere | 23.6.16- to 27.6.2016 | 2016 |
| 34 | Automation Technologies | Bosch Rexroth Centre of Competence in Automation Technology, VTU, Mysore | 17.10.2016 to 21.10.2016 | 2016 |
| 35 | 1 st Int. Conference on Materials, Manufacturing and Design Engineering 2016 | Dr Babasaheb Ambedkar Technological University, Lonere | 20.12.2016 to 21.12.2016 | 2016 |

ix. Research Activities:

Till date – 18 years of research experience. Worked on the following broad topics.

- Computer Aided Process Planning (CAPP) system for prismatic and rotational components.
- Feature Extraction for prismatic and rotational components.
- Integration of CAD/CAM and shop floor activities
- Machining of Inconel 718 (super alloys)
- Tool Condition Monitoring System for CNC machines
- Some studies on Nano-delivery pins
- Photochemical Machining
- Diamond Turning
- Machining of Advanced Materials
- Finite Element Analysis of Machining Processes
- Finite Element Analysis of Metal Forming Processes (Rolling Process)
- Development of an automatic gas cutting machine
- Machining of Microreactors
- Manufacturing of a stent

x. Patents

- “Spectrographic coloured Photo tool process for facilitating 3-D Photochemical Machining”, Patent Application No. 1243/MUM/2014 A

Patents from collaborative projects with Institute of Chemical Technology, Mumbai, under *TEQIP-II Innovation Networking (INN) Project (Applied)*

- “Microchannel reactors for highly exothermic and high pressure and high temperature systems”, Patent Application No. 201621002737, CBR No. 1521.

- “Ultrasonic assisted sub-liter size continuous water purifier”, Patent application No. 201621002746, CBR No. 1478.
- “Continuous and tunable microwave assisted microreactor system for chemical reactions”, Patent Application No. 201621002741, CBR No. 1475.
- “Continuous and tunable microwave reactor system for chemical industry and extraction of natural products”, Patent Application No. 201621002739, CBR No. 1473.

xi. Supervision of Doctoral Research:

Till date – guided **four** students on PhD work to completion.

Presently, guiding **two** students in the areas of Photochemical Machining and Machining of Bio-Materials.

xii. Supervision to MTech. Students:

Till date – guided thirty eight students on their MTech. project work to completion.

xiii. Book Chapters:

- Title: Precision Photochemical Machining (Springer Publisher)
- Title :Use of Photochemical Machining Technology for Producing Metal Artwork ([Techno-Societal 2016](#) pp. 17-26) (Springer Publisher)

xiv. Miscellaneous Administrative/Academic Activities Undertaken:

- Worked as Registrar (additional Charge) of Dr. Babasaheb Ambedkar Technological University, Lonere for fifteen months.
- Worked as workshop superintendent in-charge for one and half years as an additional charge at Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as member of purchase committee, Convocation Committee, Board of studies of Mechanical Engineering of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as University overall time table coordinator (2004-05 and 2005-06).
- Worked as time table coordinator for the department of Mechanical Engineering.
- Actively coordinated and fabricated furniture for the new classrooms of the University.

- Working as coordinator for faculty and staff development Cell of TEQIP programme. Actively involved in organizing programmes for faculty and staff members of the University.
- Worked as co-coordinator for conduction of a STTP on Advanced Materials and Near-Net-Shape Manufacturing during August 11-22, 2003 at Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as coordinator for conduction of a SDP Nanotechnology: Opportunities and Challenges during December 19-31, 2005, at Dr. Babasaheb Ambedkar Technological University, Lonere.
- Involved in organizing conference on “Precision Engineering” at PSG College of Technology, Coimbatore during Ph.D. programme.
- Worked as an expert committee member of AICTE, New Delhi (February 2005) for inspection of engineering colleges.
- Worked as officer in-charge of the examination section.
- Worked as an examination coordinator for the department of Mechanical Engineering.
- Worked as in-charge faculty member of CAD/CAM Laboratory.
- Currently in-charge faculty member of Photo Chemical Machining Laboratory.
- Actively involved in development of Metrology and Quality Control Laboratory for the department.
- Secretary- cum Treasure of ISTE local chapter of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Recognized Ph.D. guide of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Examiner for Ph. D. theses of Bharathiyar University, Coimbatore.
- Examiner for Ph.D. thesis of Anna University, Chennai.
- Member of review committee of Proceedings of the second national conference on “Precision Engineering” held at PSG College of Technology, Coimbatore, January 11-12th, 2002.
- Member of technical committee of conference on advances and recent trends in manufacturing held at Kalyani Government Engineering College, Kalyani, West Bengal, and November 14-15, 2003.

- Worked as jury member of JAIN TECHNO-ARENA 2005, a state level technical paper presentation held on 28th February 2005 at Government College of Engineering, Jalgaon.
- PG/UG Paper setter and evaluator of Shivaji University, Kolhapur and Swami Ramanand Tirth University, Nanded.
- Worked as faculty advisor for M.Tech. Manufacturing Engineering programme of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Member of planning and finance committee of Mechanical Engineering Department.
- Coordinator of Nano-technology activities of Mechanical Engineering Department.
- Actively involved in the development of syllabi of Mechanical Engineering Department.
- Treasurer of the staff club of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Member/coordinator of the different committees of Social gathering function of the University.
- Member of the committee for maintaining academic standards of the students and also to propose new academic programs in Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as coordinator/member of Ambedkar Jayanti Memorial lecture (2006).
- Worked as Marshal for M.Tech. and Ph.D. students (Convocation).
- Currently guiding five Ph.D. students
- Actively involved in the administration and development of my department in particular and University in general.
- Worked as member secretary of the Executive Council, Academic Council of the university by virtue of the Registrar's post additional charge.
- Worked as chairman of the university purchase committee by virtue of additional charge of the Registrar's post.
- Worked as a resource person for three day workshop on "High Impact Teaching Skills" held during 27.2.12 to 29.2.12 at Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as Rector/Assistant Rector of the Sahyagiri hostel.

- Worked as a resource person for L&T GET training Programme.
- Worked as a resource person for M/s JSW Ltd , Ratnagiri training Programme for Diploma students.
- Worked as Nodal Officer for Equity and Assurance Plan Implementation for TEQIP-II project.
- Completed six projects (product based) under 'Innovation Networking Project' in collaboration with Institute of Technology, Mumbai.
- Presently, working as member of IQAC cell of Dr. Babasaheb Ambedkar Technological University, Lonere.
- Worked as an Associate Co-ordinator of TEQIP-II project.
- Worked as Member Secretary, Post-Graduation Executive Council (PGEC).
- Presently, working as Professor and Head of the Department since 14/2/2017.

xv. **Research Publications:**

1. Vishwanath Chavan, Shirish Kadam, and **Mudigonda Sadaiah(2018)**, Performance of Alumina-based Ceramic Inserts in High Speed Machining of Nimonic 80A, Journal of Materials and Manufacturing Processes, <https://doi.org/10.1080/10426914.2018.1532084>, Taylor and Francis, Impact Factor : 2.669
2. Nitin D. Misal, Atul R. Saraf, and **Mudigonda Sadaiah** (2017), Experimental Investigation of Surface Topography in Photochemical Machining of Inconel718, Journal of Materials and Manufacturing Processes, <http://dx.doi.org/10.1080/10426914.2017.1317786>, Taylor and Francis, Impact Factor: 2.669
3. Deepakkumar H. Patil and **Mudigonda Sadaiah** (2017), Investigation on effect of grain orientation on surface roughness and depth of etch in chemical etching, Journal of Materials and Manufacturing Processes, <http://dx.doi.org/10.1080/10426914.2017.1291953>, Taylor and Francis, Impact Factor: 2.669
4. Nitin D. Misal and **Mudigonda Sadaiah** (2017), Investigation on Surface Roughness of Inconel 718 in Photochemical Machining" Advances in Materials Science and Engineering, Vol. 2017, Article ID 3247873, 9 pages, 2017, doi:10.1155/2017/3247873. Impact Factor: 1.01
5. Atul R. Saraf, and **Mudigonda Sadaiah** (2016), Photochemical Machining of a Novel Cardiovascular Stent, Journal of Materials and Manufacturing Processes, Taylor and Francis, Impact Factor: 2.669, <http://dx.doi.org/10.1080/10426914.2016.1198025>
6. Atul R. Saraf, and **Mudigonda Sadaiah** (2016), Magnetic field-assisted photochemical machining (MFAPCM) of SS316L, Journal of Materials and Manufacturing Processes, Taylor and Francis, Impact Factor: 2.669, <http://dx.doi.org/10.1080/10426914.2016.1198014>

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