

Curriculum Vitae of Dr Mudigonda Sadaiah



- 01. Name** : Dr Mudigonda Sadaiah
Designation : Professor of Mechanical Engineering
Address : Department of Mechanical Engineering
Dr. Babasaheb Ambedkar Technological University,
Lonere-402 103, Tq: Mangaon
Dist: Raigad (Maharashtra State), India.
- Contact Numbers** : Phone: +91-02140-275142(O)
Mobile: +91-9028037638, 9423092195
FAX : +91-02140-275040, 275142
E-mail: msadaiah@yahoo.com, msadaiah@dbatu.ac.in
- Permanent Address** : Post & Village: Akkampet, Via: Atmakur (Mandal),
Dist. Warangal Rural (Telangana State), PIN: 506 342.
- 02. Father's Name** : Late Shri Mudigonda Uppalaiah
03. Date of Birth : 05/02/1965
04. Place of Birth : Akkampet/Warangal Rural (Dist.)/ Telangana State
05. Marital Status : Married and blessed with two male children
06. Date of Joining in the Present Post : 01.08.2012
07. Date of Joining in the Institute : 19.01.1994
08. Educational Qualifications:

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

10. Work Experience:

Sr. No.		Institute / Organization	Designation	Number of Years
1	Teaching	1. Dr. B. A. T. U., Lonere	Professor	Since 01/8/2012
			Professor and Head	14/02/2017 to 18/06/2020
		2. Dr. B. A. T. U., Lonere	Associate Professor	8 years
		3. Dr. B. A. T. U., Lonere	Lecturer	10 years
2	Research	1. PSG College of Technology, Coimbatore	Research Scholar (under QIP Program)	03 years
		2. Dr. B. A. T. U., Lonere	As Research guide	Since June 7, 2004 till date
3	Administration	1. Dr. B. A. T. U., Lonere	Professor and Head	14/02/2017 to 18/06/2020
		2. Dr. B. A. T. U., Lonere	Registrar(I/c)	01/8/2019 to 04/03/2020
		3. Dr. B. A. T. U., Lonere	Registrar(I/c)	30/04/2007 to 24/07/2008
		4. Dr. B. A. T. U., Lonere	Workshop Superintendent(I/c)	Eighteen months (During 1995 to 1996)

11. Areas of Interest:

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

12. Area of Specialization : Manufacturing Engineering

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

14. Special Distinctions/Scholarships Earned:

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

15. Computer Software Packages /Languages Known:

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

16. 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)

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

Sr. No.	PG/UG Level	Number of years	Courses Taught
1	MTech	17	Processing of Advanced Materials, Metal Forming Processes
2	BTech	26	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

18. 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	P03: Continuous and tunable Microwave assisted Microreactor system for chemical reactions.	TEQIP-II INN	April 2014	April 2016	DBATU, Lonere collaboration with ICT, Mumbai
4	P05: Continuous and tunable Cavitation system for chemical reactions.	TEQIP-II INN	April 2014	April 2016	DBATU, Lonere collaboration with ICT, Mumbai
5	P06: 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.
- Worked as Co-Principal Investigator of a Research Project on ‘Development of Laboratory based Vertex Microreactor for Agricultural Application’ under CIRP TEQIP-III DBATU (2021) of worth 2.94 lacs.

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 Prismatic Components (Variant Type)	2004	In-house
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
17	Experimental Study on effects of Helix Angle on surface Roughness, Torque and Bending Moment in Dry and Cryogenic End Milling of Duplex Stainless Steel SS310 and SS316L	2019-2020	In-house
18	A Comparative Study on Photochemical Machining of SS310 and SS316L	2019-2020	In-house
19	Modeling and Determination of Machining Parameters for End Milling of AISI 4340 Alloy Steel	2020-2021	In-house
20	Between Standard Fpy Creation And Controlling VFK Variation Assembly and ATB	2020-2021	M/s Bosch, Nashik
21	Scratches Occurrence & Decoration of Window Frame of Airbus A321 Neplug Door	2020-2021	M/s Aerostrcutres Assemblies India, Belagavi
22	Green Supply Chain Management With Vendor Quality Improvement	2020-2021	M/s Bharat Forge Ltd, Pune
23	Controlling VFK Variation Between Assembly and ATB	2020-2021	M/s Bosch, Nashik
24	Design of Hydraulic Power Unit	2021-2022	M/s Asmita Engineering Equipments, Bhosari, Pune
25	Development and Enhancement in Machining Techniques on CNC Machine	2021-2022	M/s Viraj Profiles Limited, Palghar, Maharashtra
26	Benchmarking and Designing of Electric Motor for a Single Seater Electric Scooter	2021-2022	Automotive Research Association of India, Pune
27	Manufacturing of Unitank	2021-2022	M/s Hypro Engineers Pvt Ltd, Pune
28	Design, Analysis and Optimization of Punching Operation Carried out by Power Press Machine	2021-2022	Kanakdhara Industries Pvt Ltd, Jalna
29	Highway Power Generation using Vertical Axis Wind Turbine	2021-2022	CMTI, Bangalore
30	3D Modelling of Continuous Stirred Tank Reactor using 'Creo Software'	2022-2023	Padmatech Industries Pvt Ltd, Pune
31	Advanced Engg. Techniques for Industrial Design(3D Solid Modelling and Automation)	2022-2023	Steradix Solutions, Pune
32	Assembly & Inspection of Jigs and Fixtures	2022-2023	Toyota Kirloskar Motor Pvt Ltd.

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 (MT2003406)	Optimization of Nickel Chromium Electroplating Process	2006
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.	Optimization of Process Parameters of PCM of	2011

	(MT2007407)	OFHC copper	
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
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. Haresh 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
39	Mr Sudarshan N. Bhagat (10303320171260810005)	Studies on Optimisation of Geometric Features of a Coronary Stent	2019
40	Mr Sumit S. Ubalekar (Roll No.1930332608003)	An Experimental Study of Surface Roughness Variation in End Milling of Super Duplex 2507 Stainless Steel	2021

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)
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. Shrikant B. Thorat (RS20140115)	Some Investigations in Photochemical Machining of Cobalt Chromium Alloy	2021 (Part time)

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 Challenges	Decemeber19-31	2005
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 Education	Dr. B.A.T.U.-Lonere	23 rd January	2006
17	PLC and SCADA	M/s Prolific Systems &	3.4.06 to	2006

		Technologies Pvt. Ltd, Pune	8.4.06	
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
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
36	Communication and ICT	Online one week Faculty Development Program under TEQIP-III organised by Dr. BATU-Lonere	05.05.2020 To 10.05.2020	2020
37	Mental Health during COVID-19	Online Workshop Organized by Dr. BATU-Lonere, in collaboration with JDCoE and Management, Nagpur	06.05.2020 To 10.05.2020	2020
38	Online Executive Program on Meditation and Breath	Dr. BATU-Lonere, in collaboration with Art of Living foundation, Bangalore	18.05.2020 to 21.05.2020	2020
39	New Higher Education Policy and Digitization of Education	Dr. BATU-Lonere, in collaboration with RC Patel College Engg., Shirpur	May 17, 2020	2020
40	Online National Workshop on NAAC Accreditation	Engineering Staff College of India, Hyderabad.	3-4 March 2022	2022

ix. Research Activities:

Till date – 25 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

- ‘A Microstrip Antenna-Based Dynamometer for Force Measurement’, Date of Grant: 23/03/2023.
- “Spectrographic coloured Photo tool process for facilitating 3-D Photochemical Machining”, Patent Application No. 1243/MUM/2014 A

xi. Supervision of Doctoral Research:

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

Presently, guiding **one** student in the areas of Photochemical Machining and Machining of Bio-Materials.

xii. Supervision to MTech. Students:

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

xiii. Book Chapters:

- Title: Precision Photochemical Machining (Springer Publisher), Engineering Materials ISBN 978-3-319-68800-8, ISBN 978-3-319-68801-5 (eBook)
<https://doi.org/10.1007/978-3-319-68801-5>
Library of Congress Control Number: 2017954465
© Springer International Publishing AG 2018, corrected publication 2018
- 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 twenty two 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).
- 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.
- Worked 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).
- Worked as Professor and Head of the Department during 14/02/2017 to 18/06/2020.
- Worked as chairman, BoS of Mechanical Engineering during 14/02/2017 to 18/06/2020.
- Worked as In-charge Registrar of Dr. Babasaheb Ambedkar Technological University, Lonere from 1/8/2019 to 04/03/2020.
- Worked as Academic Council member of Dr. Babasaheb Ambedkar Technological University, Lonere during 14/02/2017 to 18/06/2020.
- Worked as Task Force member of Dr. Babasaheb Ambedkar Technological University, Lonere during COVID-19 Pandemic.
- Working as Nodal Officer, Academic of RUSA Project, during May 2020 to till date.

- Working as Co-coordinator of RUSA Project, during May 2020 to till date.
- Working as coordinator for establishing 3D Printing Laboratory under RUSA Project during May 2020 to till date.
- Member of DRC (2021) of Mechanical Engineering at G H Raison College of Engineering & Management, Wagholi, Pune.
- Worked as member of UGC committee of J.D. College of Engineering and Management, Nagpur for awarding autonomous status to the college.
- Working as NAAC Criteria-I (Curricular Aspects) coordinator of SSR for the DBATU.
- Worked as Coordinator (Criteria-I) of AQARs for the years 2018-19, 2019-20, 2020-21, 2021-2022.

xv. Research Publications:

International Journals:

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3. Shrikant B. Thorat and **Mudigonda Sadaiah**, The effect of residual stresses, grain size, grain orientation, and hardness on the surface quality of Co-Cr L605 alloy in Photochemical Machining, *Journal of Alloys and Compounds* 804(2019) 84-92, <https://doi.org/10.1016/j.jallcom.2019.06.358>, Elsevier, *Impact Factor: 4.175*
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6. 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
7. 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
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 10. 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>
 11. Deepakkumar H. Patil and **Mudigonda Sadaiah** (2016), The Effect of the Rolling Direction, Temperature, and Etching Time on the Photochemical Machining of Monel 400 Microchannels, Advances in Materials Science and Engineering, Volume 2016, Article ID 6751305,9 pages. <http://dx.doi.org/10.1155/2016/6751305>. Impact Factor: 1.01
 12. Suryakant B. Chandgude, Padmakar J. Pawar, and **Mudigonda Sadaiah**, Process parameter optimization based on principal components analysis during machining of hardened steel, International Journal of Industrial Engineering Computations 6 (2015) 379–390.
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18. Atul R. Saraf and **Mudigonda Sadaiah**, Photochemical Machining of SS316L, Manufacturing Technology Today, July 2012, pp.5-9 (Vol.11, Issue. 7) ISSN: 0972-7396.
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23. Deepakkumar H Patil, Shrikant B Thorat, Rohit A Khake, and **Mudigonda Sadaiah**, Comparative Study of FeCl₃ and CuCl₂ on Geometrical Features Using Photochemical Machining of Monel 400, 19th CIRP Conference on Electro Physical and Chemical Machining, 23-27 April 2018, Bilbao, Spain, Procedia CIRP 68 (2018) 144-149, doi: 10.1016/j.procir.2017.12.084, ISSN:2212-8271.
24. Shirish Kadam, Rohit Khake and **Mudigonda Sadaiah**, Experimental Investigations on Surface Roughness, Cutting Forces and Tool Wear in Turning of SuperDuplex Stainless Steel with Coated Carbide Inserts, Proceedings of the ASME 2017, 12th International Manufacturing Science and Engineering Conference, MSEC2017, June 4-8, 2017, Los Angeles, CA, USA., ISBN:978-0-7918-5073-2, doi:<https://doi.org/10.1115/MSEC2017-3008>.
25. Shrikant Thorat, Rupesh Dugad and **Mudigonda Sadaiah**, Design, Analysis and Manufacturing of Bare metal Coronary Stent using PCM, Processings of 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10) December 07-09, 2017, IIT Madras, Chennai-600036, India, pp. 129-132.
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38. Chandgude, S.B., and **Mudigonda Sadaiah**, "Tool Condition Monitoring Approaches in End Milling", 2nd International Conference on Intelligent Systems and Control, ISCO 2008, 1-2 February, 2008, Karpagam College of Engineering, Coimbatore-641 032.
39. Bhamare, D.P., Brahmanekar, P.K., and Pawade, R.S., **Sadaiah, M.**, "Some Studies on Diamond Turning of OFHC", International Conference on Precision, MESO, MICRO and Nano-Engineering, 13-14 December 2007, COPEN 2007, College of Engineering, Trivandrum, pp.193-196.

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47. **Mudigonda Sadaiah**, and Mohanram, P.V., 2001, "Design and Development of a Generative CAPP system" Proceedings of the National Conference on "Recent Advances in Material Processing", Annamalai University, Annamalai Nagar, pp. 396-403.
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