Curriculum Vitae of Dr Mudigonda Sadaiah

01. Name	: Dr Mudigonda Sadaiah
Desigantion	: Professor of Mechanical Engineering
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. 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	-

05.Work Experience:

Sr.		Institute / Organization	Designation	Number of
No.				Years
		1. Dr. B. A. T. U., Lonere	Professor	Since 01/8/2012
1	Teaching		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)

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

o8. PhD Thesis Title : "An Integrated Computer Aided Process Planning System for

Prismatic Components"

09. Computer Software Packages /Languages Known:

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

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

Sr.	PG/UG	Number	Courses Taught
No.	Level	of years	
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

11. 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	Fro m	То	Name and Address of Company / Organization
1	Po1: Microchannel reactors for	TEQIP-	April	April	DBATU, Lonere collaboration with
	highly exothermic and high	II INN	2014	2016	ICT, Mumbai
	pressure and high temperature				
0	Systems Roo: Songora for postigidas and	TEAID	April	April	DRATH Longra collaboration with
2	high role in the second	I EQIF-	April	April	DDATU, LOHEIE COHADOTATION WITH
	biological species in water	11 1ININ	2014	2016	ICI, Mumbai
	management and therapeutic				
0	Poor Continuous and tunable	TEAID	April	April	DRATU I opera collaboration with
3	Microwaya aggisted Microwaster	I LQII - II INN	April	April 2016	ICT Mumbei
	system for chemical reactions	11 11\1\	2014	2010	IC1, Mullibal
1	Pos: Continuous and tunable	TEOIP.	April	April	DBATU I onere collaboration with
4	Cavitation system for chamical	I LQII II INN	2014	2016	ICT Mumbai
	reactions	11 11111	2014	2010	IC1, Mullibai
5	Po6. Illtrasonic Assisted sub-liter	TEOIP-	April	April	DBATU Lonere collaboration with
5	size continuous water purifier	II INN	2014	2016	ICT Mumbai
6	Bio: Dolymor Motol composite	TEAID	2014 April	2010 April	DRATU I opera collaboration with
U	atopt(a) for dwig delivery in	I EQIF-	April	April	ICT Mumbei
	stenu(s) for arug denvery in	11 11NIN	2014	2010	ici, mumbai
	angioplasty.				

- 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	2003	Sponsored
	Passenger Bogie (Railway)		
03	Computer Aided process Planning System for	2003	In-house
	Rotational Components (Variant Type)		
04	Some Studies on Machining of Inconel 718	2003	In-house
05	Computer Aided Process Planning System for	2004	In-house
	Prismatic Components (Variant Type)		
06	Computer Aided process Planning System for	2004	In-house
	Rotational Components (Variant Type)		
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	2006	In-house
	Process of Inconel 718 for PVD, CVD Tools Using		
	FEA		
11	Modelling of Photochemical Machining	2006	Sponsored
12	Some Studies on Machining (Turning) of Inconel 718	2006	In-house
	with CVD Coated Tools with Chip Breaker		
13	Evaluation of Cutting Force Using FEM Analysis in	2007	In-house
	Turning of Bearing Steel Using Carbide Tools	• • • •	
14	Mathematical Modelling, Design and	2007	In-house
1.5	Experimentation of Photochemical Machining	2017	
15	Comparative Study of Machinability of SS303,	2017	sponsored
16	SS304LIM and Process Modified SS304LAHS	2017	T., 1,
10	Design and Manufacturing of Cardio-Vascular Stent	2017	In-house
1/	Experimental Study on effects of Helix Angle on	2019-	In-nouse
	surface Roughness, Torque and Bending Moment in	2020	
	Dry and Cryogenic End Milling of Duplex Stainless		
10	A Comparative Study on Distochamical Machining	2010	In house
18	of \$\$210 and \$\$216	2019-	III-nouse
10	01 55510 and Determination of Machining	2020	In house
19	Parameters for End Milling of AISI 4240 Allow Steel	2020-	III-House
20	Pataleters for End Willing of AIST 4340 Alloy Steel	2021	M/a Boach Nashik
20	VEK Variation Assembly and ATB	2020-	WI/S DUSCII, MASIIIK
21	Scratches Occurrence & Decoration of Window	2021	M/a Aprostrautras
21	Frame of Airbus A321 Neplug Door	2020-	Assemblies India
	Traine of Airbus A521 Nepiug Door	2021	Relagavi
22	Green Supply Chain Management With Vendor	2020-	Delagavi
	Quality Improvement	2020	M/s Bharat Forge
		2021	Ltd Pune
23	Controlling VFK Variation Between Assembly and	2020-	M/s Bosch Nashik
23	ATB	2020-	11/5 D05011, 1405111K
24	Design of Hydraulic Power Unit	2021-	M/s Asmita
		2022	Engineering
1	1		00

			Equipments, Bhosari,
			Pune
25	Development and Enhancement in Machining	2021-	M/s Viraj Profiles
	Techniques on CNC Machine	2022	Limited, Palghar,
			Maharashtra
26	Benchmarking and Designing of Electric Motor for a	2021-	Automotive
	Single Seater Electric Scooter	2022	Research Association
			of India, Pune
27	Manufacturing of Unitank	2021-	M/s Hypro Engineers
		2022	Pvt Ltd, Pune
28	Design, Analysis and Optimization of Punching	2021-	Kanakdhara
	Operation Carried out by Power Press Machine	2022	Industries Pvt Ltd,
			Jalna
29	Highway Power Generation using Vertical Axis	2021-	CMTI, Bangalore
	Wind Turbine	2022	

iii. Students' Guidance (MTech):

Sr.	Name of the student	Title of thesis	Year of
No			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. (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
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 Allov	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	Some Investigations on Orthogonal Turning of	2017
	(MT2015408)	SAF 2205 and SAF 2507 Duplex Stainless Steel	
		using PVD Coated Carbide Inserts	
36	Ms Smita V. Bhandare	Some Investigations on Surface Roughness and	
	(MT2015401)	Residual Stresses in End Milling of SAF 2205	2017
		Duplex Stainless Steel	
37	Mr Abhishek Sanjay	LCD Based DLP 3D Printer	2018
	Deshpande		
	(MT2016405)		
38	Mr Ashish Jaysingh Pailwan	Some Investigations in Surface Topography of	2018
	(MT2016409)	Co-Cr Alloy for Bio-Implants using PCM	
39	Mr Sudarshan N. Bhagat	Studies on Optimisation of Geometric Features	2019
	(10303320171260810005)	of a Coronary Stent	
40	Mr Sumit S. Ubalekar	An Experimental Study of Surface Roughness	2021
	(Roll No.1930332608003)	Variation in End Milling of Super Duplex 2507	
		Stainless Steel	

iv. Students' Guidance (PhD):

Sr.	Name of the student	Title of thesis	Year of
No			completion
01.	Suryakant B. Chandgude	An Investigation into Cutting Process	2015
	(RS20060101)	Dynamics in End Milling using Tool	(Part time)
		Condition Monitoring	
02.	Nitin D. Misal	Some Investigations into Photochemical	2017
	(RS20090101)	Machining of Inconel Alloy	(Part time)
03.	Deepakkumar H. Patil	Photo Chemical Machining of Monel	2017
	(RS20120113)		(Full time)
04.	Mr. Atul R Saraf	Some Studies on the Effect of Process	2017
	(RS20120114)	Parameters in Photo Chemical Machining of	(Full time)
		SS316L	
05.	Mr. Shrikant B. Thorat	Some Investigations in Photochemical	2021
	(RS20140115)	Machining of Cobalt Chromium Alloy	(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	August 11-22	2003
	Manufacturing		
02	Nanotechnology: Opportunities and	Decemeber19-31	2005
	Challenges		
03	Product Design Engineering	September 28 to Oct. 2	2018
	(In collaboration with Auto Desk)	-	

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	1994
			17.12.94	
02	Japanese Management Philosophies	Engineering College Kota,	15.6.96 to	1996
	and Techniques for Operations	Kota	29.6.96	
	Management			
03	C-Fundamentals	Walchand Institute of	15.6.98 to	1998
		Technology, Solapur	26.6.98	
04	Advanced Manufacturing	I.I.T. Khanpur	15.3.99 to	1999
	Technology	_	27.3.99	

			0 1	
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.ULonere	23 rd January	2006
17	PLC and SCADA	M/s Prolific Systems & Technologies Pyt. 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	Indian Institute of	August 29,	2013

	Appreciative Mindset	Technology Bombay	Sept. 2-4, 16, 2013	
27	Hi-Impact Leadership	By Mr. Shiy Khera	23.7.2014	
-/	Blue print for Success	The Lalit. Mumbai	to	2014
	F		25.7.2014	1
28	ASME International Conference on	University of North Carolina.	8.6.15	
-	Manufacturing Sciences and	Charlotte, North Carolina,	to	2015
	Engineering (MSEC2015)	USA	12.6.15	U
20	Round Table Conference of		22.9.15	2015
	Technical Universities on	JNTU Kakinada	to	0
	Innovations in Engineering		23.9.15	
	Education with Global Perspective:			
	A Blended Approach			
30	Outcomes-Based Education	Organised by	09.1.16	
		BMS College of Engg.,	to	2016
		IUCEE and Inpods at Pune	10.1.16	
31	Quality Initiatives in Technical &	Engineering Staff College of	23.2.16	2016
	Higher Educational Institutions	India, Hyderabad	to	
	(In Compliance with NBA&NAAC		25.2.16	
	Accreditation)	NDA Nor Dalla	10 0 16	221
32	WOSA 2016 Conference	NBA, New Deini Thomas Quality Assurance	18.3.16	2016
		through Outcome Recod	10	
		Accreditation	20.3.10	
33	Outcome Based Education	One Week Faculty	23.6.16- to	2016
00		Development Program under	27.6.2016	
		TEQIP-II organised by Dr.	,	
		BATU-Lonere		
34	Automation Technologies	Bosch Rexroth Centre of	17.10.2016	2016
		Competence in Automation	to	
		Technology, VTU, Mysore	21.10.2016	
35	1 st Int. Conference on Materials,	Dr Babasaheb Ambedkar	20.12.2016	2016
	Manufacturing and Design	Technological University,	to	
	Engineering 2016	Lonere	21.12.2016	
36	Communication and ICT	Online one week Faculty	05.05.2020	
		Development Program under	10	2020
		BATU Loporo	10.05.2020	
97	Mental Health during COVID-10	Online Workshon Organized	06 05 2020	
3/		by Dr. BATU-Lonere in	τ ₀	2020
		collaboration with JDCoE	10.05.2020	2020
		and Management, Nagpur	20100.2020	
38	Online Executive Program on	Dr. BATU-Lonere, in	18.05.2020	
0-	Meditation and Breath	collaboration with Art of	to	2020
		Living foundation, Banglore	21.05.2020	
39	New Higher Education Policy and	Dr. BATU-Lonere, in		
	Digitization of Education	collaboration with RC Patel	May 17,	2020
		College Engg., Shirpur	2020	
40	Online National Workshop on	Engineering Staff College of	3-4 March	2022

ix. Research Activities:

Till date - 23 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. Suprvision of Doctoral Research:

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

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 (<u>Techno-Societal 2016</u> 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.
- Worked as coordinator for faculty and staff development Cell of TEQIP programme. Actively involved in organizing programes 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.
- 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 Nevember 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.
- Worked as faculty advisor for M.Tech. Manufacturing Engineering programme of Dr. Babasaheb Ambedkar Technological University, Lonere.
- > Coordinator of Nano-technology activities of Mechanical Engineering Department.
- > Actively involved in the development of syllabi of Mechanical Engineering Department.
- 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.
- 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 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 Raisoni 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:

- 1. Deepakkumar Patil, Shrikant Thorat, and Mudigonda Sadaiah (2023), Study of the effect of PCM process parameters on geometry type, Ra, depth of etch, undercut comparing FeCl3 and CuCl2 etchants on Monel 400, Advances in Materials and Processing Technologies, <u>https://doi.org/10.1080/2374068X.2023.2205668</u>, Taylor and Francis, *Impact Factor:2.37*
- 2. Shrikant B. Thorat and **Mudigonda Sadaiah**, The relative influence of surface metallurgy and selfmagnetisation induced by different manufacturing processes on surface integrity of Co-Cr alloy using PCM, Materials Characterization, 167(2020) 110526, https://doi.org/10.1016/j.matchar.2020.110526, Elsevier, Impact Factor: 3.430
- 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, <u>https://doi.org/10.1016/j.jallcom.2019.06.358</u>, Elsevier, Impact Factor: 4.175
- 4. Shrikant B. Thorat and **Mudigonda Sadaiah**, Investigation on Surface Integrity of Co-Cr L605 Alloy in Photochemical Machining, Journal of Manufacturing Processes 38 (2019) pp. 483-493, <u>https://doi.org/10.1016/j.jmapro.2019.01.006</u>, Elsevier, Impact Factor: 3.462
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- 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, <u>http://dx.doi.org/10.1080/10426914.2017.1317786</u>, Taylor and Francis, Impact Factor: 2.669
- 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, <u>http://dx.doi.org/10.1080/10426914.2017.1291953</u>, Taylor and Francis, Impact Factor: 2.669
- 8. 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
- 9. 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
- 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. <u>http://dx.doi.org/10.1155/2016/6751305</u>. 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.
- 19. Thakur, D.G., Brahmankar, P.K., and **Mudigonda Sadaiah**, "Drilling of Glass Fibre Reinforced Composite with modified HSS drill geometry" A National Journal: Manufacturing Technology Today, October 2005, pp. 20-24(number of citations:1).
- 20. Mudigonda Sadaiah, Amit Waje, Sandip Ranade, Amol Khedekar, Vaibhav Shingan and Thakur, D.G., "Turning of Inconel 718 with Multiplayer CVD Coated Carbide Tools," A National Journal: Manufacturing Technology Today, October 2005, pp. 13-19.
- 21. **Mudigonda Sadaiah**, Yadav, D.R., Srinivas, K.N., Radhakrishnan, P., and Kaul, I.K., Capturing Manufacturing, The Machinist, May-June 2003,pp. 31-33.

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- 22. Shrikant Thorat, Vinod Lonkar, Ashish Pailwan, Vikas Sargade, Mudigonda Sadaiah, Effect of metallurgical parameters induced by manuafacturing processes on photochemical machining of Co-Cr alloy, 20th CIRP Conference on Electro Physical and Chemical Machining, Procedia CIRP 95(2020) 149-154. DOI: 10.1016/j.procir.2020.01.204.
- 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 Enggineering Conference, MSEC2017, June 4-8, 2017, Los Angeles, CA, USA., ISBN:978-0-7918-5073-2, doi:<u>https://doi.org/10.1115/MSEC2017-3008</u>.
- 25. Shrikant Thorat, Rupesh Dugad and **Mudigonda Sadaiah**, Design, Analysis and Manufacturing of Bare metal Coronary Stent using PCM, Processigns 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.
- 26. Shrikant Thorat, Vinod Lonkar, Deepakkumar Patil and **Mudigonda Sadaiah**, Some Investigations on Photochemical Machining of Cobalt-ChromiumL605 Alloy, Proceedings of 6th International & 27th All India Manufacturing Technology, Design and Research Conference(AIMTDR-2016), College of Engineering, Pune, Maharashtra, INDIA, December 16-18, 2016, pp.1418-1421, ISBN: 978-93-86256-27-0
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- 30. Atul R. Saraf and **Mudigonda Sadaiah**, Predictive Modelling of Undercut in Photochemical Machining, 3rd International Conference on Recent Trends in Engineering& Technology (ICRTET 2014), K.B.Jain College of Engineering, Chandwad, March 28-30, 2014, pp.470-474, ISBN No. 978-93-5107-222-5.
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- 32. Misal, N.D., and **Mudigonda Sadaiah**, "Multi Objective Optimization of Photochemical Machining of Copper Using Grey Relational Analysis", PCMI 2010 Spring Conference, Las Vegas Nevada, USA, April 8-10, 2010.
- 33. Chandgude, S.B., and **Mudigonda Sadaiah**, "Study of Tool Life and Surface Roughness in Machining Hardened steel AISI H13 with TiN Coated Carbide Insert", Proceedings of the 3rd International Conference on Advances in Mechanical Engineering, January 4-6, 2010, S.V. National Institute of Technology, Surat-395 007, Gujarat, India, pp.928-932.
- 34. Agrawal, D.P., and **Mudigonda Sadaiah**, "Experimental Study of Photochemical Machining Process on Stainless Steel-304", Sixth International Conference on Precision, MESO, MICRO and Nano-Engineering, COPN6, organized by PSG-AMRITA-UNCC, Coimbatore, India, 11-12 December, 2009, pp. F30-F36.
- 35. Chandgude, S.B and **Mudigonda Sadaiah**, "Prediction of Cutting Forces and Surface Roughness during End Milling of CI-25 Using Artificial Neural Network", Proceedings of the International Conference on 'Advances in Mechanical Engineering, August 3-5, 2009, S.V. National Institute of Technology, Surat-395 007, Gujarat, India, pp.805-809.
- 36. Agrawal, D.P., and **Mudigonda Sadaiah**, "Optimisation of Process Parameters in Photochemeical Machining on Stainless Steel-304 by Ferric Chloride Etchant for MRR", 2nd International Conference on Advances in Material Processing Technology, National Engineering College, Kovilpatti-628 503, 25-27, February 2009, pp.540-546.
- 37. Chandgude, S.B., and Mudigonda Sadaiah, "Measurement and Analysis of Cutting Forces in End Milling: A Practical Approach", Proceedings of the International Conference on 'Advances in Mechanical Engineering, December 15-17, 2008, S.V. National Institute of Technology, Surat-395 007, Gujarat, India, pp.899-903.

- 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., Brahmankar, 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.
- 40. Mahajan, K.A., **Mudigonda Sadaiah**, Brahmankar, P.K., and Pawade, R.S., "Effect of Tool Waviness on Components in Diamond Turning", International Conference on Precision, MESO, MICRO and Nano-Engineering, 13-14 December 2007, COPEN 2007, College of Engineering, Trivandrum, pp.189-192.
- 41. Nimbalkar, D.H., and **Mudigonda Sadaiah**, "Analysis of Drawbead for Non-Symmetrical Components to Avoid Cracking and Wrinkingling using Finite Element Method", International Conference on Computer Aided Engineering, IIT Madras, Chennai, December 13-15, 2007.
- 42. Birajdar, D.V., Eklare, S.K., Thakur, D.G., and **Mudigonda Sadaiah**, "Modelling of Photochemical Machining", First International and 22nd All India Manufacturing Technology, Design and Research Conference (22nd AIMTDR), Indian Institute of Technology Roorkee, Roorkee-247 667, 21st –23rd December, 2006.
- 43. **Mudigonda Sadaiah**, Thakur, D. G., Shingan, V.T., Madhekar, Y.S., Purva, D.S., "Some studies on tool wear and tool life of PVD coated tools while machining (Turning) of Inconel 718", 1st International Conference on Manufacturing and Management, 8th to 10th December 2004, Vellore Institute of Technology, Vellore-632 014, 2004, pp.132-137.
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- 46. **Mudigonda Sadaiah**, Mohanram, P.V., July 10-12, 2001, "Dynamic Computer Aided Process Planning Using MMS, TMS, and Dynamic Scheduling", Proceedings of 17th International Conference on CAD/CAM, Robotics and Factories of the Future, University of Natal, Durban, South Africa, pp.786-794.
- 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.
- 48. Mudigonda Sadaiah, Ms. Swetha Singh, Mohanasundaram, K.M., Mohanram, P. V., July 10-12, 2001,"Dynamic scheduling system for a batch production industry", Proceedings of 17th International Conference on CAD/CAM, Robotics and Factories of the Future, University of Natal, Durban, South Africa, pp.678-685.

- **49.**N.B. Gurule, Nandwani, **and Mudigonda Sadaiah**, "Single Point Diamond Turning (SPDT): An Enabling Technology for Nano-Surface Finish", Proceedings of International Conference on Nano-Technology-Materials and Methods (to meet global challenge), CIT-NANOTECH 2006, Coimbatore Institute of Technology, Coimbatore, 23-25 June 2006.
- **50.**Kulkarni, A.P., Thakur, D.G., Randive, P., and **Mudigonda Sadaiah**, "CNC Oxy-Acetylene Profile Cutting System", Proceedings of the International Conference on Advances in Materials Processing and Characterisation, Building Future Materials through Innovation, College of Engineering, Guindy, Anna University, Chennai, India, Vol.II, 28-30th August 2006, pp.966-973.
- 51. **Mudigonda Sadaiah**, and N.D. Misal, "Mathematical Modelling of Photochemical Machining Process", The Proceedings of the International Conference on Advances in Manufacturing & Technology Management –2007 (ICAMTM 2007), Parshvanath College of Engineering, Thane (W), Mumbai, January 18-20, 2007, pp.276-283.

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