

Faculty Profile



1. Name of Faculty: Dr.VijaysingUdalsing Rathod
2. Present Position :Lecturer in Mechanical Engineering Department
3. Address : Government Polytechnic Mumbai
4. Mobile No. : 9137001141
5. E-Mail Id : vurathodju@gmail.com
6. Date of joining(Govt of Maharashtra): 23.07.2001
(Govt. Poly. Mumbai) : 19.07.2017
7. Total Teaching Experience in years: 23
8. Memberships of professional organizations/Bodies :
 - Lifemember of Indian Society for Technical Education (ISTE) –LM74975
 - Life member of Indian Institution of Industrial Engineering (IIIE)-LM9202

QUALIFICATIONS: (Graduation and Onwards)

Sr. No.	Degree	University	Class Award	Year of Passing
01	Ph.D	Jadavpur University, Kolkata, India		2016
02	M.E. (Mech.)	Mumbai University, India	First	2009
03	B.E. (Mech.)	North Maharashtra University, Jalgaon, Maharashtra, India	First	1998

CAREER DETAILS:

Sr. No.	Organization	Designation	Duration	Period	Work Done in Brief
01	VJTI, Mumbai, Maharashtra, India.	Lecturer in Mech. Engg. (Contractual Basis)	June 1999- July 2001	02 yrs	Teaching, examination, and other work related to the post of Lecturer
02	GovernmentPolytechnic,	Lecturer in	July 2001-	10 Yrs	Teaching, examination,

	Mumbai, Maharashtra – 400 051, India	Mech. Engg.	July 2011		and other work related to the post of Lecturer
03	Government Polytechnic Ratnagiri, Maharashtra – 415 612 India	Lecturer in Mech. Engg.	July 2011– July 2017	06 Yrs	Teaching, examination, and other work related to the post of Lecturer
04	Government Polytechnic, Mumbai, Maharashtra – 400 051, India	Lecturer in Mech. Engg.	July 2017- Till date	3 Yrs	Teaching, examination, and other work related to the post of Lecturer

TRAINING COURSES ATTENDED:

Sr. No.	Course Name	Duration	Place	Training Agency	Remarks
1.	Induction phase –I,	17 th June to 12 th July 2002	Government Polytechnic, Pune, Maharashtra	Government Polytechnic, Pune, Maharashtra	
2.	Diagnostics and Troubleshooting of CNC machine tools	24 th To 28 th Oct. 2005	Bharat Fritz Werner Limited (BFW), Benguluru, India.	Bharat Fritz Werner Limited (BFW), Benguluru, India.	
3.	Induction Phase –II,	22 nd May to 2 nd June 2006	NITTTR, Bhopal, M.P., India	NITTTR, Bhopal, M.P., India	
4.	Solid Modeling and Assembly using Pro-E,	11 th to 15 th June 2007	NITTTR, Bhopal, M.P., India	NITTTR, Bhopal, M.P., India	
5.	Autodesk ESS Mechanical,	23 rd to 25 th April, 2007	Government Polytechnic Nashik, Maharashtra	Government Polytechnic Nashik, Maharashtra	
6.	Operation and Maintenance of CNC machines,	30 th July to 03 rd Aug. 2007	NITTTR, Bhopal, M.P., India	NITTTR, Bhopal, M.P., India	
7.	Advances in Welding Processes	7-8 th Feb. 2008	Government Polytechnic, Pune, Maharashtra	Government Polytechnic, Pune, Maharashtra	
8.	Security and surveillance system in educational institutions,	5-9 th May 2008	Advance Technology, Chandigarh, India.	Advance Technology, Chandigarh, India.	
9.	New horizons in engineering materials,	23 rd June to 4 th July, 2008	D J Sangvi College of Engineering,	D J Sangvi College of Engineering,	

			Mumbai	Mumbai	
10.	Industrial Training of Technical Teachers,	23 rd June to 21 st July 2010	Government Polytechnic, Pune, Maharashtra	Government Polytechnic, Pune, Maharashtra	
11.	Effective communication –A key to success	20 th Dec. 31 st Dec. 2010	K J Somayya Polytechnic, Mumbai	K J Somayya Polytechnic, Mumbai	
12.	Teaching Methodology and Soft Skills	13 rd to 18 th Aug. 2012	Agnel Polytechnic, Vashi, Navi Mumbai	Agnel Polytechnic, Vashi, Navi Mumbai	
13.	Appropriate sanitation practices in India	17-22 nd Dec. 2012	Sinhgad College of Engineering, Pune, Maharashtra.	Sinhgad College of Engineering, Pune, Maharashtra.	
14.	Object Oriented Analysis and Design (OOAD-2012),	24-28 th Dec. 2012	Government College of Engg., Chandrapur, Maharashtra	Government College of Engg., Chandrapur, Maharashtra	
15.	Advanced Machine Design,	2-6 th Dec. 2013	Mechanical Engg. Dept., VJTI, Mumbai	Mechanical Engg. Dept., VJTI, Mumbai	
16.	Signal and Image Processing with Wavelet,	16-25 Dec. 2013	VJTI, Mumbai, India.	VJTI, Mumbai, India.	
17.	Workshop on ‘Micro manufacturing’,	27 th -29 th March, 2014	Production Engg. Dept. Jadavpur University, Kolkata, India.	Production Engg. Dept. Jadavpur University, Kolkata, India.	
18.	Fabrication Techniques,	8 th -19 th Dec., 2014	NITTTR, Kolkata, India.	NITTTR, Kolkata, India.	
19.	Soft Computing and Optimization	1 st – 5 th October, 2015	At GHRCE, Nagpur, under Tequip-II	At GHRCE, Nagpur, under Tequip-II	
20.	Excellence in Manufacturing	2 nd -6 th Jan. 2017	G. P. Nashik	G. P. Nashik	

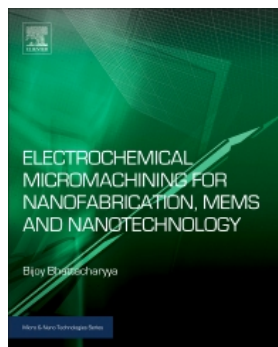
Publications :

International Journals:

1. V. Rathod, B. Doloi, and B. Bhattacharyya, "Influence of electrochemical micromachining parameters during generation of microgrooves", **International Journal of Advance Manufacturing Technology**, 76 (2015) 51-60.
2. V. Rathod, B. Doloi, and B. Bhattacharyya, "Parametric investigation into the fabrication of disk microelectrodes by electrochemical micromachining", **Journal of Micro and Nano-Manufacturing-ASME Transactions**, 1(041005) (2013) 1–11.
3. V. Rathod, B. Doloi, and B. Bhattacharyya, "Sidewall insulation of microtool for electrochemical micromachining to enhance the machining accuracy", **International Journal of Materials and Manufacturing Processes**, 29 (2014) 305–313.
4. V. Rathod, B. Doloi, and B. Bhattacharyya, "Experimental investigations into machining accuracy and surface roughness of microgrooves fabricated by electrochemical micromachining", Proceedings of the Institution of Mechanical Engineers, Part B: **Journal of Engineering Manufacture**, July 2014, Vol. 229 (10), pages 1781- 1802.
5. V. Rathod, B. Doloi, and B. Bhattacharyya, "Improving accuracy of microgroove in electrochemical micromachining by Taguchi method", **Journal of Manufacturing Technology Research**, 5 (3-4) (2014)1-10.
6. V. Rathod, B. Doloi, and B. Bhattacharyya, "Fabrication of Microgrooves with Varied Cross-sections by Electrochemical Micromachining" **International Journal of Advance Manufacturing Technology**, Sept. 2017, Volume 92, pages 505-518.
7. V Rathod, SanketJadhav, SiddheshBhalekar, SachinChavan, Gear Lock System for Enhancing Safety of Two Wheeler Side Parking Stand, **Int. Journal Engg. Research and Technology**, May. 2017, Vol.6 (5), pp. 519-521.
8. V. Rathod, B. Doloi, and B. Bhattacharyya, 'Machining Guidelines for Fabricating Microgrooves of Varied Cross-sections by Electrochemical Micromachining', **International Journal of Precision Technology**, 2018, Vol. 7(2-4), pp. 169–187.

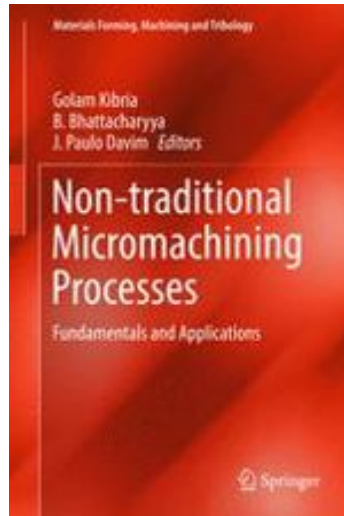
Book Publications

- Assisted in writing the book titled '**Electrochemical Micromachining for Nanofabrications, MEMS and Nanotechnology**', Authored by Prof. B. Bhattacharyya, Elsevier Publication, Waltham, MA, USA, 2015 (ISBN :978-0-323-32737-4)

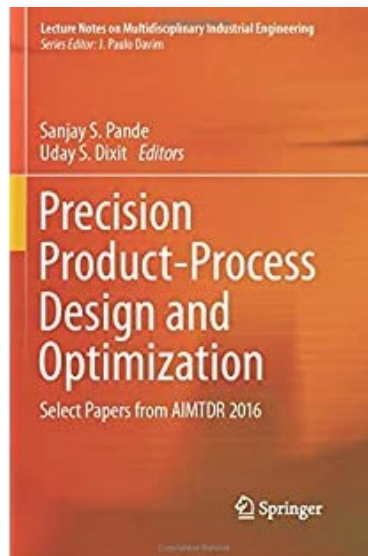


- Authored a book chapter titled '**Electrochemical Micromachining (EMM): Fundamentals and Applications**' in edited book titled 'Non-traditional Micromachining Processes - Fundamentals and Applications' by the

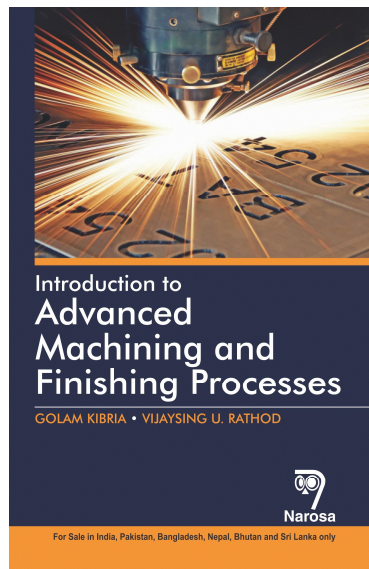
Editors Golam Kibria, B. Bhattacharyya, J. Paulo Davim, Springer Publication, UK, March 2017 online ISBN: 978-3-319-52009-4, (pp 275-335).



- Authored a book chapter titled, '**Machining guidelines for fabricating micro-grooves of varied cross-sections by electrochemical micromachining**', in edited book titled Precision Product-Process Design and Optimization- Select Papers from AIMTDR 2016 edited by Prof. S.S. Pande, and Prof. U.S. Dixit, IIT Guwahati, India, Springer Publication, Singapore, ISBN: 978-981-10-8767-7 (pp 211-238), 1st ed. 2018 edition (May 5, 2018)



- Authored a book titled 'Introduction to Advanced Machining and Finishing Processes', Narosa Publication, New Delhi, Feb. 2019, ISBN: 978-81-8487-654-3.



- Book chapter titled, 'Accuracy Improvement Techniques in Electrochemical Micromachining (EMM)' authored by Dr. V. U. Rathod, is published in edited book titled, ' Accuracy Enhancement Technologies for Micromachining Processes', Springer Publications, Singapore, ISBN: 978-981-15-2116-4 has recently been published in electronic and print format on 21st Feb. 2020.

Specialization/ Area of Interest:Non-traditional Machining, Micromachining

Portfolios handled at institute level(Last 3 years):Training and Placement Officer,
Workshop Supdt., Store officer

Portfolios handled at department level(Last 3 years):Time table in-charge, Departmental
TPO coordinator,
