

## BIO-DATA

**Name** : Dr. Joshi Harshadeep Shyamkant.  
**Position** : Associate Professor, Mechanical Engg.  
**Qualification** : Ph.D. in Mechanical Engg. (IIT KGP - 2015)  
M. E. (Mechanical – CAD/CAM - 2003)  
B. E. (Production Engineering - 1999)  
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**Experience** : Teaching: 24 Years  
**Research Interests** :Robotics, Automation, 3D Printing, FEM,



### Additional Job Responsibilities:

1. OSD Affiliation Section Dr. Babasaheb Ambedkar Technological University, Lonere (From Nov 2019)
2. Nodal Officer, National Academic Depository (Since 2021)
3. Coordinator, Atmanirbhar Bharat Cell, DBATU Lonere Since (2020)
4. Controller of Examinations, Dr. Babasaheb Ambedkar Technological University, Lonere (From May 2018 to June 2019)
5. Coordinator, Technical Event Committee, DrBATU Lonere. (Since 2015)
6. Faculty Advisor, Technology Club DBATU Lonere (Since 2019)
7. Coordinator, Cultural Committee, Dr. BATU Lonere. (since 2017 to 2019)

### Publications:

#### Book Chapter:

1. Ajanalkar S., **Joshi H**, " Logic Based Path Planning (LBPP) Algorithm for Robotic Library System", Handbook of Smart Materials, Technologies, and Devices, Editors: Hussain C.M., Di Sia P., Springer (2021), [https://doi.org/10.1007/978-3-030-58675-1\\_150-1](https://doi.org/10.1007/978-3-030-58675-1_150-1)
2. **Harshadeep S. Joshi**, Surjya K. Pal, Goutam Chakraborty, "Study on the Delamination of GFRP Composites in Drilling: A Finite Element Model", Simulations for Design and Manufacturing, Editors: Dixit Uday, Kant Ravi, Springer (2018), PP 1-43, DOI: 10.1007/978-981-10-8518-5\_1, ISBN 978-981-10-8518-5

#### Papers:

1. Mahto Raju Prasad, Bhoje Rahul, Pal SurjyaK, **Joshi Harshadeep S.**, Das Siddhartha, "A study on mechanical properties in friction stir lap welding of AA 6061-T6 and AISI304", Materials Science & Engineering A652 (2016) pp 136–144
2. Joshi Harshadeep S, Pal S. K., Chakraborty G., "Study on the Delamination of GFRP Composites in Drilling: A Finite Element Model", 6<sup>th</sup> International and 27<sup>th</sup> National AIMTDR Conference2016 at COEP Pune Dec 2016
3. Sudeep Dethe, Harshadeep S. Joshi and Prashant Kambre, "Prediction of Surface Roughness in Face Milling of ASTM304L Stainless Steel based on Measurement of Cutting Force and Acoustic Emission", 6<sup>th</sup> International and 27<sup>th</sup> National AIMTDR Conference2016 at COEP Pune Dec 2016

4. Joshi Harshadeep S., P. Ghole, S. Shirse, S. Madke, "Automated CAD Modeling of Mechanical Components", International Conference on Material Manufacturing and Design Engineering 2016 at DBATU Lonere Dec 2016
5. Joshi Harshadeep S, Dabde B M, Parvekar R P, and Deshmukh R S, "Application Programming Interface for Modeling Antifriction Bearings" National Conference on Contemporary Approaches in Design and Manufacturing'05, ACCET, Karaikudi-4. March 2005
6. Joshi Harshadeep S, Dabde B M, Parvekar R P, and Deshmukh R S, "Knowledge Driven Automation of CAD (Modeling) Procedures" 1<sup>st</sup> International and 22<sup>nd</sup> National AIMTDR Conference 2006 at IIT Roorkee. Dec 2006
7. Joshi Harshadeep S, Pal S. K., Chakraborty G., Parthasarathi Mandal "Estimation of Thrust Force Using Finite Element Analysis during Drilling of GFRP Composites", International Journal on Global Technological Initiative, Vol. 01 issue 2 March 2012.
8. Harshadeep Joshi, Umesh Kolhe, Rohan Thalkar, "Methane Hydrate: Natural Source of Energy", Energy Needs and Current Trends, ENACT-2014, National Conference at DBATU Lonere, 19th- 20th Dec 2014.
9. Harshadeep Joshi, Shubhankar Gurav, "Energy Conservation through Heat Pipe", Energy Needs and Current Trends, ENACT-2014, National Conference at DBATU Lonere, 19th- 20th Dec 2014.

## **Industrial Interaction**

### **Sponsored Project:**

1. Chief Investigator for the sponsored project by BARC Mumbai, on '**Bio Connectors**' under Prof. Dr. P K Brahmkar as PI
2. Completed consultancy project on '**Investigation on Failure of Nipple Joints of Graphite Electrodes using Finite Element Analysis**' for HEG Bhopal at IIT Kharagpur under Prof. S. K. Pal.