

Dr. BASANTA KUMAR BHUYAN

Ph.D., MNNIT Allahabad

Correspondence Address:

Flat No: B-349, First Floor, Back Side,
Green Field Colony, Faridabad-121010

Mobile: +91-8860526796, 7678544831

E-mail: bkbhuyan.fet@mriu.edu.in

<https://scholar.google.com/citations?user=-kPoN7AAAAAJ>



1. Education:

- **Ph.D** in Electrochemical Spark Machining Process, Mechanical Engineering Department, Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Uttar Pradesh, INDIA, June 2014.
- **M.Tech** in Manufacturing and Automation, Career Institute of Technology & Management, Faridabad, MDU University, Rohtak, Haryana, INDIA, 2008.
- **B.Tech** in Mechanical Engineering, ITER, Bhubaneswar, BPUT Rourkela, Odisha, INDIA, 2005.

2. Research Interest:

- Advanced Machining Processes
- Hybrid Machining Processes
- Nano/Micro-Manufacturing Processes
- Manufacturing Science and Technology
- Shaping of Advanced Engineering Materials
- DOE based Modeling and Optimization Methods such as TM and RSM
- Soft Computing Methods (NN/FL/GA) in Manufacturing
- Finite Element Method (FEM) in Manufacturing

3. Experience: 12.4 years in Teaching and 3 years in Research

Post	Employer	Duration
Professor	Manav Rachna International Institute of Research and Studies (NAAC A Grade) (Formerly Manav Rachna International University), Faridabad, Haryana	3 Years 01.06.2018 to till date
Associate Professor	Manav Rachna International University, Faridabad, Haryana	4.4 Years 24.01.2014-31.05.2018
Assistant Professor	Manav Rachna International University, (Formerly Career Institute of Technology & Management), Faridabad, Haryana	1 Year 30.06.2009-29.06.2010

Lecturer	Career Institute of Technology & Management, Faridabad, Haryana	3 Years 16.06.2006-29.06.2009
Lecturer	Babu Banarsi Das Institute of Technology, Ghaziabad, U.P.	1 Year 02.08.2005-15.07.2006
Senior Research Fellow (SRF)	Motilal Nehru National Institute of Technology Allahabad, Allahabad, U.P.	3 Years 05.07.2010-31.07.2013

4. PhD Thesis Supervision: 02 in progress

S. No.	Name	Title of Thesis
1	Gurpreet Singh Matharou	Experimental investigation and optimization of process parameters in Electrical Discharge Machining process
2	Anil Kumar Dahiya	Experimental Investigation on Abrasive Water Jet Machining of Composites

5. M.Tech Thesis Supervision: 01 completed and 01 in Progress

6. B.Tech Projects Supervision: 10 Completed

7. List of Publications: 53

International Journals (25)

➤ Science Citation Index (SCI): 03 and SCOPUS: 16

1. **Basanta Kumar Bhuyan**, Nikhil Kumar, Ajay Kumar, Kartik Sharma, Vineet Verma, Experimental investigations on Electrical Discharge Grinding of Composite Material, Materials Today: Proceedings, 38(1) 2021, 444-448 (**SCOPUS, Published by Elsevier, UK and ISSN: 2214-7853**).
2. **B. K. Bhuyan**, Tarun, Jalaj and R. Saxena, Study of the effect of process variables on output response in Electro Chemical Discharge Drilling of borosilicate glass, Materials Today: Proceedings, 43(1) 2021, 335-340 (**SCOPUS, Published by Elsevier, UK and ISSN: 2214-7853**).
3. Rishabh, Prateek Srivastava, **Basanta Kumar Bhuyan**, Design and Development of Travelling Wire Electro Chemical Machining Process, International Journal of Research Publication and Reviews, 2 (4) 2021, 398-404 (**Impact factor:5.536 and ISSN: 2582-7421**).
4. Prateek Srivastava, Rishabh, **Basanta Kumar Bhuyan**, Explicit and Thermal Analysis on Travelling Wire Electrochemical Machining Process, International Journal of Research Publication and Reviews, 3 (4) 2021, 590-596 (**Impact factor:5.354 and ISSN: 2582-5208**).
5. Gurpreet Singh Matharou and **B. K. Bhuyan**, Parametric Analysis of Electric Discharge Machining of Hybrid Composite Materials, Advances in Engineering Materials "Lecture Notes in Mechanical Engineering, pp. 329-338, 2021 (**SCOPUS, Published by Springer, Singapore**).

6. Gurpreet Singh Matharou and **B. K. Bhuyan**, Hybrid Metal Matrix Composite development by stir casting method and environmental concerns, pp. 377-386, 2021 (**SCOPUS, Published by Springer, Singapore**).
7. Devlina Gaharwar, S. K. Jha, **Basanta Kumar Bhuyan**, Current Status and Trends in Electric Discharge Diamond Grinding Process, International Journal of Advanced Technology in Engineering and Science, 9 (4) 2021, 162-170 (**Impact factor:5.8 and ISSN: 2348-7550**).
8. Gurpreet Singh Matharou and **B. K. Bhuyan**, Parametric optimization of EDM process for Aluminium hybrid metal matrix composite using GRA-PCA approach, International Journal of Mechanical and Production Engineering Research and development, 10 (3), 2020, 367–378. (**SCOPUS and ISSN: 2249-8001**)
9. **B. K. Bhuyan**, Lakshay Gupta and Chirag Garg, Research Trends and Opportunities of Electro-Chemical Grinding Process, AIP Conference Proceedings, 2276, (1) 020041-10 (2020); <https://doi.org/10.1063/5.0025796>. (**SCOPUS, WoS, Published by AIP Publishing**)
10. **B. K. Bhuyan**, Lakshay Gupta and Chirag Garg, Design and development of tabletop electrochemical grinding setup, Materials Today: Proceedings, 21, (3) 2020, 1479-1482 (**SCOPUS, Published by Elsevier, UK and ISSN: 2214-7853**)
11. Arun Bansal, Saransh Gupta and **B. K. Bhuyan**, A Review on Wear Behavior of Cutting Tools During Machining of Inconel, Nimonic, and Hastelloy, Indian Journal of Science and Technology, 12 (41), 2019, 1-8. (**SCOPUS, WoS, EBSCO and ISSN: 0974-5645**)
12. **Basanta Kumar Bhuyan**, Pravabati Bhuyan and Satish Mishra, Modeling and Response Optimization of Traveling Wire Electro-Chemical Spark Machining of Borosilicate Glass using Hybrid Approach, Journal of Advanced Manufacturing Systems, 19 (3) 2020, 425-447. (**SCOPUS, WoS Published by World Scientific, Singapore and ISSN: 1793-6896**)
13. Gurpreet Singh Matharou and **B. K. Bhuyan**, Modelling and combined effect analysis of Electric Discharge Machining process using Response Surface Methodology, Materials Today: Proceedings, 2021 (**SCOPUS, Published by Elsevier, UK and ISSN: 2214-7853**).
14. Gurpreet Singh Matharou and **B. K. Bhuyan**, Significant complications declining usage of Electrical Discharge Machining process, IOP Conf. Series: Materials Science and Engineering, 2021. (**SCOPUS, Published by IOP Science, UK and ISSN: 1757-899X**).
15. Anil Kumar Dahiya, **Basanta Kumar Bhuyan**, Shailendra Kumar, A review on Machining Potential of Composite Materials during Abrasive Water Jet Machining (**SCOPUS, Lecture notes in Mechanical Engineering, Springer Link, 2020**)
16. Kumar Bhartendu, S. K. Jha and **B. K. Bhuyan**, Theoretical and experimental estimation of Material removal rate of Electric spark diamond grinding of difficult-to-cut materials. (**SCOPUS, Lecture notes in Mechanical Engineering, Springer Link, 2020**)
17. Gurpreet Singh Matharou and **B. K. Bhuyan**, Experimental investigation of surface roughness in electric discharge machining of Hybrid Metal Matrix Composite, (**SCOPUS, Lecture notes in Mechanical Engineering, Springer Link, 2020**).
18. Pravabati Bhuyan, Satish Mishra and **Basanta Kumar Bhuyan**, Modeling of MRR due to Traveling Wire Electro-Chemical Spark Machining Process using FEM, International Journal for Scientific Research & Development, 6 (3), 2018, 2271-2276. (**Impact Factor: 4.396, Published by IJSRD, India and ISSN: 2321-0613**)

19. Krishna Khattri, Gulshan Choudhary, **Basanta Kumar Bhuyan** and Ashish Solekar, A review on parametric analysis of Magnetic Abrasive Machining process, IOP Conf. Series: Materials Science and Engineering, 330, 2018, 1-9. (**SCOPUS, Published by IOP Science, UK and ISSN: 1757-899X**)
20. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental modeling and multi response optimization of traveling wire electro-chemical spark machining (TW-ECSM) of Pyrex glass. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 228 (8), 2014, 902-916. (**SCI, Published by SAGE Publication U.K, Impact factor 1.982 and ISSN: 0954-4054**)
21. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Study of Traveling Wire Electrochemical Spark Machining of Borosilicate Glass. Materials and Manufacturing Processes, 29 (3), 2014, 298-304. (**SCI, Published by Taylor & Francis, U.K, Impact factor 3.046 and ISSN: 1042-6914**)
22. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Modeling and Multi-Objective Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Process. Journal of Mechanical Science and Technology, 27 (8), 2013, 2467-2476. (**SCI, Published by Springer, Korea, Impact factor 1.463 and ISSN: 1738-494X**)
23. **Basanta Kumar Bhuyan** and Vinod Yadava, Modeling and Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) process. International Journal of Industrial and Systems Engineering, 18 (2), 2014, 139-158. (**SCOPUS, Published by Inderscience Publication, USA and ISSN: 1748-5037**)
24. **Basanta Kumar Bhuyan** and Vinod Yadava, Simultaneous Optimization of Multiple Quality Characteristics in Traveling Wire Electrochemical Spark Machining (TW-ECSM) of Pyrex Glass. Asian Journal of Engineering and Applied Technology, 2 (2), 2013, 19-24. (**UGC Approved, Published by The Research Publication, India and ISSN: 2249-068X**)
25. **Basanta Kumar Bhuyan** and Vinod Yadava, Experimental Investigations of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) of Borosilicate Glass. Asian Review of Mechanical Engineering, 1 (2), 2012, 24-29. (**UGC Approved, Published by The Research Publication, India and ISSN: 2249-6289**)

National Journal (02)

26. Gurpreet Singh Matharou and **B. K. Bhuyan**, RSM modelling and Investigation of Hybrid Metal Matrix Composite during EDM operation, Wesleyan Journal of Research, 13 (04) (IX), 2020, 177-183. (**UGC Care Approved, India and ISSN: 0975-1386**)
27. **Basanta Kumar Bhuyan** and Vinod Yadava, Development of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Setup. Journal of Engineering & Technology Education, 6 (2), 2012, 28-33. (**ISSN: 2229-631 X**)

International Conferences (19)

28. Gurpreet Singh Matharou and **B K Bhuyan** (2020), Environmental concerns while fabrication of Hybrid Metal Matrix Composite through Stir Casting method, Proceedings of the International Conference on Environment Challenges and Solutions (ICECS 2020), FET-MRIIRS, Faridabad, Haryana, 31st January-2nd February, pp. 256.
29. **B K Bhuyan**, Lakshay Gupta and Chirag Garg (2019), Research Trends and Opportunities of Electro-Chemical Grinding Process, Proceedings of the International Conference on Advanced

Materials (ICAM 2019), Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, March 6-7, pp. 124. (ISBN: 978-93-86608-87-1)

30. **B K Bhuyan**, Lakshay Gupta and Chirag Garg (2019), Experimental Study of Electro-Chemical Grinding Process: A Review, Proceedings of the 2nd International Conference on New Frontiers in Engineering Science & Technology (NFEST 2019), Department of Mechanical Engineering, National Institute of Technology Kurukshetra, February 18-22, pp. 55.
31. Krishna Khattri, Gulshan Choudhary, **Basanta Kumar Bhuyan** and Ashish Solekar (2017), A review on parametric analysis of Magnetic Abrasive Machining process, Proceedings of the International Conference on Recent Advances in Materials, Mechanical and Civil Engineering (ICRAMMCE 2017), Marri Laxman Reddy Institute of Technology & Management, Hyderabad, Telangana, June 1-2, pp. 20-29. (ISBN: 978-3-03571173-8-3670-1)
32. **Basanta Kumar Bhuyan**, Pravabati Bhuyan and Rajesh Porwal (2017), Material Removal Rate and Kerf Width of Kevlar-Epoxy Composite Machined with Traveling Wire Electrochemical Spark Machining, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 125-131. (ISBN: 978-1-5090-6140-2).
33. Rajnish Saxena, Amitava Mandal, Somnath Chattopadhyaya and **Basanta Kumar Bhuyan** (2017), A Review on workpiece material, process parameter & optimization process of Electro Chemical Discharge Machining, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 182-186. (ISBN: 978-1-5090-6140-2).
34. Prabhat Kumar and **Basanta Kumar Bhuyan** (2017), Experimental Investigations of Slurry Abrasion Test Rig during Machining of ADC12 alloy, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 65-70. (ISBN: 978-1-5090-6140-2).
35. Vinay Kumar, Pawan Singh, Himanshu Yadav, Vishvendra Singh, Ashir Ahmed, **Basanta Kumar Bhuyan** and Manoj Nayak (2017), Some of the Experimental Investigations of Electrical Discharge Machining Process, Proceedings of the International Conference on Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017), FET, Manav Rachna International University, Faridabad, January, 5-7, pp. 14-17. (ISBN: 978-1-5090-6140-2)
36. **Basanta Kumar Bhuyan**, Vinod Yadava and Pravabati Bhuyan (2016), Development and Parametric Study of Traveling Wire Electro-chemical Spark Machining Process during Machining of Borosilicate Glass, Proceedings of the 6th International and 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), College of Engineering Pune, Maharashtra, December, 16-18, pp.346-350. (ISBN: 978-93-86256-27-0).
37. Rajnish Saxena and **Basanta Kumar Bhuyan** (2016), Design and Experimental investigation of Electro-Chemical Discharge Machining (ECDM) of tiny Glass, Proceedings of the 2nd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2016), ITS Engineering College, Greater Noida, India, April, 15-16, pp. 252-256. (ISBN: 978-81-930411-8-5) **ELK Asia Pacific Journals-Special Issue**
38. Rajesh Kumar Porwal, Sanjay Mishra and **Basanta Kumar Bhuyan** (2016), Modelling of Hole Sinking Electrical Discharge Micro Machining of Ni-Based Super Alloy Thin Sheet, Proceedings of the 2nd International Conference on Advancements and Recent Innovations in Mechanical, Production and Industrial Engineering (ARIMPIE-2016), ITS Engineering College, Greater Noida, India, April, 15-16, pp. 216-221.

39. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Modeling and Analysis of Machining Characteristics in Traveling Wire Electrochemical Spark Machining Process, Proceedings of the International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-2013), National Institute of Technology Calicut Kerala, India, December, 13-15, pp. 939-945. (ISBN: 978-93-82880-86-8)
40. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Multi-Objective Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) of Borosilicate Glass, Proceedings of the International Conference on Smart Technologies for Mechanical Engineering (STME-2013), Delhi Technological University, Delhi, India, October, 25-26, pp. 865-873. (ISBN: 978-93-83083-35-0)
41. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Simultaneous Optimization of Multiple Quality Characteristics in Traveling Wire Electrochemical Spark Machining (TW-ECSM) of Pyrex Glass, Proceedings of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, (AFTMME-2013), Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala, Punjab, October, 3-6, pp. 156-161. (ISSN: 2249-068X)
42. **Basanta Kumar Bhuyan** and Vinod Yadava (2013), Optimization of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) process for multiple performance characteristics using Taguchi method and Grey relational analysis, Proceedings of the 3rd International Conference on Production and Industrial Engineering (CPIE-2013), Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, March, 29-31, pp. 993-998. (ISBN: 978-81-920453-1-3)
43. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), A Study on Material Removal Rate and Surface Roughness due to Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) based on Taguchi Method, Proceedings of the International Conference on Agile Manufacturing Systems (ICAM-2012), Indian Institute of Technology, Banaras Hindu University, Varanasi, December, 16 -19, pp.531-539. (ISBN: 978-93-5087-8668)
44. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), Effect of Supply Voltage and Electrolyte Concentration on Material Removal Rate due to Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) process, Proceedings of the 4th International and 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2012), Jadavpur University, Kolkata, December, 14-16, pp.58. (ISBN: 978-93-82062-95-0)
45. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), Experimental Investigations of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) of Borosilicate Glass, Proceedings of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering (AFTMME-2012), Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala, Punjab, October, 5-7, pp. 404-409. (ISSN: 2249-6289)
46. Mohan Charan Panda, Vinod Yadava and **Basanta Kumar Bhuyan** (2010), Intelligent Modeling of Traveling Wire Electro-Chemical Spark Machining Process, Proceedings of the 3rd International and 24th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2010), Visakhapatnam, December, 13-15, pp. 537-544.

National Conferences (07)

47. Rajnish Saxena, Amitava Mandal, Somnath Chattopadhyaya and **Basanta Kumar Bhuyan** (2018), Experimental Investigations of Drilling Electrochemical Discharge Machining Process, Proceedings of the 19th ISME Conference on Advances in Mechanical Engineering (Mechanical Systems and Sustainability), Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, December, 20-22, pp. 56.

48. Rajnish Saxena, Amitava Mandal, Somnath Chattopadhyaya and **Basanta Kumar Bhuyan** (2017), A Review on Electro Chemical Discharge Machining Process (ECDM), Proceedings of the National Conference on Trends and Advances in Mechanical Engineering (TAME-2017), YMCA University of Science & Technology, Faridabad, Haryana, March, 16-17, pp. 231-237. (ISBN: 978-93-5268-269-0)
49. Krishna Khattri, Gulshan Choudhary, Shashi Bhushan Prasad and **Basanta Kumar Bhuyan** (2017) Effect of Process Parameters on the Performance of Magnetic Abrasive Machining Process: An Overview, Proceedings of the National Conference on Emanations of Sustainable Technologies in Engineering, Science, Management and Education (ESTESME-2017), Manav Rachna University, Faridabad, April, 01, pp. 35-41.
50. Faraz Ahmed, Sumit Yadav, Avinash Sharma, Vishnu, Raman and **Basanta Kumar Bhuyan** (2014), Development of Electro-Chemical Spark Machining Setup, Proceedings of the National Conference on Paradigms in Mechanical Engineering (PME-2014), FET, Manav Rachna International University, Faridabad, December, 20, pp. 14-17.
51. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), Machining characteristics of Borosilicate Glass using Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Process, Proceedings of the National Conference on Trends and Advances in Mechanical Engineering (TAME-2012), YMCA University of Science & Technology, Faridabad, Haryana, October, 19-20, pp. 571-578. (ISBN: 978-93-5087-574-2)
52. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), Experimental analysis of difficult to machine non-conductive materials using Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Process, Proceedings of the All India Seminar on Advances in Materials & Material Selection in Design (AMMSD-2012), HBTI-Kanpur, August, 24-25, pp. 40-49.
53. **Basanta Kumar Bhuyan** and Vinod Yadava (2012), Development of Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Setup, Proceedings of the 3rd National Conference on Advances in Manufacturing Technology (AMT-2012), National Institute of Technical Teachers Training and Research Chandigarh, March, 15-16, pp. 339-343. (ISSN 2229-631 X)

8. Reviewer of International Journals:

- a. Materials and Manufacturing Processes (Taylor and Francis, U.K)
- b. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (SAGE Publication, U.K)
- c. International Journal of Manufacturing Technology and Management (Inderscience, U.K.)
- d. International Journal of Advanced Manufacturing Technology (Springer, U.K.)
- e. Journal of Mechanical Science and Technology (Springer, Korea)
- f. International Journal of Mechanical and Production Engineering Research and Development (Transstellar Journal Publications and Research, India)
- g. Editorial board member of International Journal of Latest Transactions in Engineering and Science (India)
- h. Materials Today: Proceedings (Elsevier, UK)

9. Prizes/Honours/Awards/Distinctions/Courses:

- a. Completed four weeks NPTEL (*Swayam-MOOC*) course on “*Manufacturing Processes-Casting and Joining*” during Jan-Feb 2021.

- b. Completed 8 weeks NPTEL (*Swayam-MOOC*) course on “*Advanced Machining Processes*” during Sep-Nov 2020.
- c. Completed an online non-credit course on “*Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360*” authorized by AUTODESK and offered through COURSERA on July-August 2020.
- d. Completed an online non-credit course on “*Advanced Manufacturing Process Analysis*” authorized by University at Buffalo and The State University of New York and offered through COURSERA on June-July 2020.
- e. Participated a short course on ‘*Learn to Design your own Solar Home System*’ held on 27.06.2020. The certificate has been awarded as a part of Energy Literacy Drive of the Energy Swaraj Foundation in association with MRIIRS.
- f. The B.Tech Project on “*Prototype setup of Electrochemical Spark Machining Process*” got 3rd Prize in **Best Engineering Project Scheme-Award** organized by **Faridabad Industrial Association**, Faridabad on 5th May 2018.
- g. **Best paper** awarded on the topic entitled “*Experimental analysis of difficult to machine non-conductive materials using Traveling Wire Electro-Chemical Spark Machining (TW-ECSM) Process*” in All India Seminar on Advances in Materials & Material Selection in Design, HBTI Kanpur, August 24-25, 2012.

10. Expert Lectures:

- a. Delivered Expert lecture on “*Recent Scope of drilling Electrochemical Spark Machining Process*” for a webinar organized by Department of Mechanical Engineering, NIU, Greater Noida on 12.02.2021.
- b. Delivered Invited Talk on “*Opportunities and Challenges in Electrochemical Spark Micro Machining*” in one week Faculty Development Program on *Thermal Energy Based Micro/Nano Machining Processes* organized by Department of Mechanical Engineering, BBDNITM, Lucknow from 2.11.2020-6.11.2020.
- c. Delivered Invited Talk on “*Recent Research Trends in Hybrid Machining Processes*” for a webinar organized by Department of Mechanical Engineering, BBDNITM, Lucknow on 05.06.2020.
- d. Delivered Expert Lecture on “*Research Trends and Opportunities of Electro-Chemical Spark Machining Process*” in one week short term course on *Recent Advances and Industrial Applications of Advanced Machining Processes* (RAIAMP-2019) organized by Department of Mechanical Engineering, BIET Jhansi during March 26-30, 2019 held under the aegis of TEQIP-III.
- e. Delivered Expert Lecture on “*Traveling Wire Electro-Chemical Spark Machining Process*” in one week short term course on *Micromanufacturing: Materials, Processes and Systems* (MMPS-2013) organized by Mechanical Engineering Department and Applied Mechanics Department, MNNIT Allahabad on July 08-12, 2013.

11. Administrative Experience:

- Member of Academic Monitoring Committee
- Member of DRC and RAC.

- Member of Board of Study
- Departmental Research/PhD Coordinator
- Examination Coordinator of FET
- Member of Departmental Academic Integrity Panel of plagiarism
- Member of Program Allocation committee
- Member of Academic Review Committee.
- Subject Coordinators and Lab in-charge.
- Departmental NAAC/NBA work
- Workshop Coordinator
- Superintendent and Deputy Superintendent of Examination.
- Maker and Moderator of Question Papers for End Semester.
- Member of University Technical core team for Admission.
- Departmental in-charge for Plagiarism.
- Departmental B.Tech Project Evaluator
- Mentor In-charge
- Worked as a presiding officer for four times in Faridabad

12. List of Seminar/Conference/Workshop/Training program organized:

- a. Organized as a coordinator of an online webinar on *Micro-EDM process and its industrial applications* during 17.09.2020 in Mechanical Engineering Department at FET, MRIIRS Faridabad.
- b. Organized as a co-coordinator of one week ICT based short term course on “*Advanced Manufacturing Methods*” with collaboration of NITTTR Chandigarh from 05.03.2018-09.03.2018 in Mechanical Engineering Department at FET, MRIIRS Faridabad.
- c. Organized as joint organizing secretary of an International Conference on *Quality, Productivity, Reliability, Optimization and Modeling (ICQPROM 2017)* during January 5th-7th, 2017 in Mechanical Engineering Department at Manav Rachna International University Faridabad.
- d. Organized as organizing secretary of a National Conference on *Paradigms in Mechanical Engineering (PME-2014)* during 20th December, 2014 in Mechanical Engineering Department at Manav Rachna International University Faridabad.
- e. Organized as a coordinator of self-financed short term course on *Manufacturing: Processes, Materials and Systems (MPMS-2014)* during July 18-19, 2014 in Mechanical Engineering Department at Manav Rachna International University Faridabad.

13. List of Workshop/Training program/Summer/Winter School attended:

- a. Participated one week AICTE quality improvement schemes (AQIS) short term training program (STTP) through online mode on “*Processing, Characterization and Modeling of Smart Materials and Systems*” conducted by Department of Mechanical Engineering, C V Raman Global University, Bhubaneswar, Odisha from 18.01.2021 - 23.01.2021.

- b. Participated one week NPTEL-AICTE Faculty Development Program on “**Advanced Machining Processes**” conducted by Department of Mechanical Engineering, IIT Madras from Sep-Nov 2020.
- c. Participated one week AICTE Training and Learning (ATAL) Academy online FDP on “**3D Printing & Design**” conducted by Department of Mechanical Engineering, B.M.S. College of Engineering, Bengaluru, Karnataka from 01.09.2020 - 05.09.2020.
- d. Participated one week AICTE Training and Learning (ATAL) Academy online FDP on “**Advancement in Manufacturing Technologies for Industrial Applications**” conducted by Department of Mechanical Engineering, Gyan Ganga Institute of Technology and Sciences, Jabalpur, MP from 24.08.2020 - 28.08.2020.
- e. Participated one week online STC Programme on “**Hybrid Manufacturing Processes: Opportunities and Challenges**” conducted by Department of Industrial & Production Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar from 06.07.2020 - 10.07.2020 under TEQIP-III.
- f. Participated one week online AICTE recognized Faculty Development Programme on “**Mechanical Manufacturing and Process optimization**” conducted by Mechanical Engineering Department, NITTTR Chandigarh from 25.06.2020-29.06.2020.
- g. Participated one day webinar on “**Elementary Engineering Drawing and CAD training for summer Internship**” organised by Department of Mechanical Engineering, BBDNITM, Lucknow on 23.05.2020.
- h. Participated one week in the AICTE recognized Faculty Development Program on “**Research Oriented Project work**” conducted by MRIIRS Faridabad with collaboration of CDC Department of NITTTR Chandigarh from 24.02.2020-28.02.2020.
- i. Attended one week faculty development programme on “**Natural Language Processing**” jointly organized by MRIIRS Faridabad and ICT Academics by the Ministry of Electronics and Information Technology, Government of India from 06.01.2020-10.01.2020.
- j. Attended as an organizing committee member of “**quality circle forum of India Delhi chapter**” held at MRIIRS Faridabad on 27.07.2019.
- k. Attended one week ICT based short term course on “**Green Manufacturing**” organized by MRIIRS Faridabad with collaboration of NITTTR Chandigarh from 11.02.2019-15.02.2019.
- l. Attended one week ICT based short term course on “**Human Engineering in Design**” organized by MRU Faridabad with collaboration of NITTTR Chandigarh from 10.09.2018-14.09.2018.
- m. Attended one week ICT based short term course on “**Advanced Manufacturing Methods**” organized by FET, MRIIRS Faridabad with collaboration of NITTTR Chandigarh from 05.03.2018-09.03.2018.
- n. Attended as a Session Chair of one day national conference on “**Emanations of Sustainable Technologies in Engineering, Science, Management and Education (ESTESME-2017)**”, Manav Rachna University, Faridabad, April, 01, 2017.
- o. Attended one week short term course on “**Micromanufacturing: Materials, Processes and Systems (MMPS-2013)**” organized by MNNIT Allahabad from 8.07.2013-12.07.2013.
- p. Attended two weeks “**Faculty Development Programme for Academic Excellence**” organized by Manav Rachna College of Engineering, Faridabad from 14.07.2008 to 26.07.2008.

14. Membership of Professional Bodies:

- Indian Society for Technical Education (*LM-ISTE, Membership ID : 114031*)
- Indian Society of Mechanical Engineers (*LM-ISME, Membership ID: 20161020001*)
- International Association of Engineers (*LM-IAENG, Membership ID: 179049*)
- The Institute of Indian Foundrymen (*IIF, Membership ID: M/15509/N/FBD*)
- The Institution of Engineers of India (*IEI, Membership ID:M-164004-0*)