

Dr. BIKASH PANJA



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DISCIPLINE

Mechanical Engineering

PRESENT STATUS

Professor in the Department Mechanical Engineering at Swami Vivekananda University, Barrackpore, Kolkata, West Bengal.

PROFESSIONAL SUMMARY

- **Professor**, Department of Mechanical Engineering, Swami Vivekananda University, Barrackpore, Kolkata, WB. (16th February 2024 - Till date).
- **Associate Professor**, Department of Mechanical Engineering, Narula Institute of Technology, Kolkata, WB. (January 2022 – 15th February 2024).
- **Assistant Professor**, Department of Mechanical Engineering, Narula Institute of Technology, Kolkata, WB. (July 2015 - December 2021).
- **Senior Research Fellow**, Department of Mechanical Engineering, Jadavpur University, Kolkata, WB. (August 2012 - June 2015)
- **Assistant Professor**, Department of Mechanical Engineering, Camellia Institute of Technology & Management, Hooghly, WB, (September 2011 – August 2012).

TOTAL YEARS OF PROFESSIONAL EXPERIENCE

Teaching: 10 Years 06 Months

Research: 2 Years 10 Months

ADMINISTRATIVE RESPONSIBILITIES HELD

- **HOD** in Mechanical Engineering Department, Narula Institute of Technology, Kolkata, (2nd May 2022 – 31st January 2024).
- Performing **NBA work as a HOD** and successfully obtained NBA Accreditation from July 2023 to June 2026.
- Also worked as a Committee member at the Institute for **NAAC Work** (AY 2018-19 to AY 2021-22) and active committee member of **IQAC** from 2016 to 15th February 2024.
- **In-charge in Diploma Section**, Narula Institute of Technology, Kolkata, (8TH July 2016 – 15th February 2024). Job details: Looking after WBSCT&VE&SD related works and day to day Operational, Administrative Activities for smooth functioning of the institute.
- In addition to that, I am also looking after the **Exam-cell** activities as an **Officer-in-Charge** (Diploma Examination), **Registration** of students and Admission related activities.

MEMBERSHIP OF PROFESSIONAL BODIES

The Association of Engineers, India / (LM - 337)

The Institution of Engineers (India) / (M – 164189-6)

ACADEMIC QUALIFICATION

Examination	Board/ Council/ University	Institution	Year of passing	Marks/ Grade
Ph.D in Engg. (Mech. Engg.)	Jadavpur University	Jadavpur University	2015	Awarded
M.Tech. in Prod. Engg.	W.B.U.T	Kalyani Govt. Engg. College	2011	7.86
B.Tech. in Mech. Engg.	W.B.U.T	Asansol Engg.College	2009	7.72
Diploma in Mech.Engg.	W.B.S.C.T.E	R.K.Mission Shilpapitha	2006	75.80
Secondary	W.B.B.S.E	P.S.C.High School	2001	69.38

TITLE OF THESIS

M. Tech: Comparison of Anti-loosening Characteristics of Various Threaded Fasteners with A Newly Developed One.

Ph.D: Tribology of Electroless Ni-P Coatings under Corrosive Environment.

SCHOLARSHIP, FELLOWSHIP, AWARD etc.

SRF under the UGC sponsored UPE II (27.08.12 – 30.06.15)

SPECIAL ACHIEVEMENT

1. Received a **gold medal** from The Institution of Engineers (India) for the best Journal paper, entitled “Tribological Behaviour of Electroless Ni-P Coatings in Brine Solution and Optimization of Coating Parameters Using Taguchi Based Grey Relation Analysis” (published in the Series ‘C’ Journal of IEI, Vol. 96, Issue 3) which was presented at the Prize Distribution Ceremony of the 31st Indian Engineering Congress at Hotel J W Marriott, Kolkata 700105, on 16th December, 2016.
2. To discuss the recent trends and scope on Mechanical Engineering at **DD Bangla** channel on 14th July, 2023 in the Live programme “Ki hote chai”.
3. To discuss the scope of Diploma Engineering at **DD Bangla** channel on 30th July, 2021 in the Live programme “Ki hote chai”.

PUBLICATIONS

Book: A.K. Namdeo, D.S. Robinson Smart, **B. Panja** and S.B. Bhalake, Fundamentals of Manufacturing Technology, Rest Publishers Ltd, India, **2023** (ISBN: 978-81-965783-8-1)

Edited Book: Ranjan Kumar, Ravi Nigam, **Bikash Panja**, Innovative insights- A Guide to Mechanical Engineering, Swami Vivekananda University (Institutional Publisher), Kolkata-700121, India, 2024, ISBN: 978-81-964878-8-1.

Book Chapter:

1. Gupta, P. Dhara, J. Das, S. Kundu, D. Pramanik, S. Kundu, **B. Panja**, Exploring kerf width in wire EDM of EN36B steel: A statistical Analysis, Advances in Materials, Manufacturing and Design, Lecture Notes in Mechanical Engineering (Springer), **2024**, ISBN: 978-981-97-6666-6, https://doi.org/10.1007/978-981-97-6667-3_36 (**Scopus Indexed**).

2. Prince Anand, **Bikash Panja**, Ranjan Kumar and Arnab Das, Parametric Observation of Surface Roughness and Burr Formation on Mild Steel using Micro Milling Operation, Innovative Approaches in Engineering Research, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-761-0, <https://doi.org/10.62906/bs.book.211>

3. Amit Rakshit, Kunal Dey, **Bikash Panja**, Ranjan Kumar and Arnab Das, Ranking Analysis Based on the Multi-Criteria Optimization of Technical Specifications to select the best Lathe Machine by Topsis Method, Innovative Approaches in Engineering Research, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-761-0, <https://doi.org/10.62906/bs.book.211>

4. Debal Pramanik, Arnab Das, Ranjan Kumar and **Bikash Panja**, Assessment of Titanium Machining Employing Wire Electrical Discharge Machining through an Artificial Intelligence (AI) based Optimisation, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

5. Suresh Guin, Arijit Mukherjee, Md. Ershad and **Bikash Panja**, Machining Characteristics using Regression and Visualization Tools: A Comprehensive Review, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

6. Soumak Bose, Suman Kumar Ghosh, Ranjan Kumar and **Bikash Panja**, A Comprehensive Review on Wire Electrical Discharge Machining (WEDM) Process Parameters: Effects, Optimization and Applications, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

7. **Bikash Panja**, Soumya Ghosh, Sayan Paul and Anupam Mallick, Exploring Vibration Phenomena in Rotating Machinery: Causes, Detection and Control, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, **2024**, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

8. **Bikash Panja**, Suman Kumar Ghosh, Sayan Paul and Anupam Mallick, Study of Kerf Width in Wire EDM of EN36B Steel: Key Factors and Optimization Strategies, Research

Methodologies in Engineering and Applied Science, Bright Sky Publications TM, 2024, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

9. Md. Ershad, Ranjan Kumar, **Bikash Panja** and Arnab Das, Impact of Lanthanum Oxide on the Physical and Mechanical Characteristics of Calcium Fluoroaluminosilicate Glass Systems, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, 2024, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

10. Md. Ershad, Ranjan Kumar, **Bikash Panja** and Arnab Das, Investigating the Hydrophobicity and High Temperature Mechanical Properties of Hard Nanocomposite Al-Si-N Thin Films, Research Methodologies in Engineering and Applied Science, Bright Sky Publications TM, 2024, ISBN: 978-93-6233-705-4, <https://doi.org/10.62906/bs.book.209>

11. **Bikash Panja**, Arghya Gupta, Akhtarujjaman Sarkar, Bimal Das, Goutam Roy, Artificial intelligence in assessing damage to structural elements: A review, Innovative insights- A Guide to Mechanical Engineering, Swami Vivekananda University (Institutional Publisher), Kolkata-700121, India, 2024, ISBN: 978-81-964878-8-1.

12. **B. Panja** and D. Pramanik, Introduction to Engineering Composite Materials: Properties and Applications, Elements of Innovation: A Journey into Material Science and Engineering, Swami Vivekananda University (Institutional Publisher), Kolkata-700121, India, 2024, ISBN: 978-81-964878-5-0.

13. S. Banerjee, **B. Panja** and P. Sahoo, Parametric optimization of machining characteristics of titanium alloy in WEDM, Nonconventional Machining, De Gruyter, 2023, <https://doi.org/10.1515/9783110584479-006>, (Scopus Indexed).

List of Publications (Referred Journals):

1. D. Pramanik, **B. Panja** and S. Banerjee, Parametric study of WEDM of titanium grade 12 using RSM and desirability approach, Emerging Materials Research, vol 13(1), pp. 1-11, 2024, <https://doi.org/10.1680/jemmr.22.00192>, ISSN: 2046-0147. (SCI Indexed).
2. H. Ghosh, S. Mukhopadhyay, M. Saha, S. Banerjee and **B. Panja**, Study of machining characteristics of 45C8 carbon steel alloy in CNC turner, Materials Today: Proceedings, online published on 10th February 2023, <https://doi.org/10.1016/j.matpr.2023.01.374>, ISSN: 2214-7853 (Scopus Indexed).
3. A. Bose, **B. Panja**, S. Chabri, A. Sarkar, A. Samanta and G. Roy, Analysis of the von Mises Stress for Edge and Embedded Cracks in Statically Loaded Planar Elements, NanoWorld Journal, vol. 9 (S1), pp. S450-S454, 2023, <https://doi.org/10.17756/nwj.2023-s1-086>, ISSN: 2379-1101 (Scopus Indexed).
4. S. Banerjee, **B. Panja** and S. Mitra, A Study on Kerf Width of EN47 Spring Steel in WEDM, Journal of the Association of Engineers, India. vol. 90, No. 1&2, 2020, <https://doi.org/10.22485/jaei%2F2020%2Fv90%2Fi1-2%2F205387> ISSN: 0368-1106.
5. S. Banerjee, **B. Panja** and S. Mitra, Study of Process Parameters in WEDM with EN47 Spring Steel, Emerging Materials Research, vol. 9 (3), pp. 628-636 2020, <https://doi.org/10.1680/jemmr.19.00075> ISSN: 2046-0155. (SCI Indexed).
6. S. Banerjee, **B. Panja** and S. Mitra, Study of MRR for EN47 Spring Steel in WEDM, Materials Today: Proceedings, vol. 5, pp. 4283-4289, 2018 <https://doi.org/10.1016/j.matpr.2017.11.693> ISSN: 2214-7853. (Scopus Indexed).
7. **B. Panja** and S. Das, Development of an anti-loosening fastener and comparing its performance with different other threaded fasteners, Sadhana, vol. 42, no. 10, pp. 1793 –

- 1801, **2017**. <https://doi.org/10.1007/s12046-017-0719-4> ISSN: 0973-7677. **(SCI Indexed)**.
8. **B. Panja**, S.K. Das and P. Sahoo, Tribological Behaviour of Electroless Ni-P Coatings in Various Corrosive Environments, *Surface Review and Letters*, vol. 23(5), 1650040, pp. 1-18, **2016**. <https://doi.org/10.1142/S0218625X16500402> ISSN: 1793-6667. **(SCI Indexed)**.
 9. S. Banerjee, S. Mitra and **B. Panja**, Optimization of WEDM Process Parameters of EN47 Spring Steel Based on Roughness Using Taguchi Method, *IOSR Journal of Mechanical and Civil Engineering*, vol. 13(3-I), pp. 46-50, **2016**. DOI: [10.9790/1684-1303014650](https://doi.org/10.9790/1684-1303014650) ISSN: 2278 – 1684. .
 10. **B. Panja** and P. Sahoo, Tribological behaviour of electroless Ni-P coatings in alkaline environment and optimization of coating parameters using Taguchi based grey relation analysis, *Indian Journal of Engineering & Materials Sciences*, vol. 22, pp. 503-512, **2015**. ISSN: 0975-1017. **(SCI Indexed)**.
 11. **B. Panja** and P. Sahoo, Wear characteristics of electroless Ni-P coatings in alkaline medium and optimization of coating parameters, *Journal of Manufacturing Technology Research*, vol. 7, No. 1-2, pp. 25-38, **2015**. ISSN: 1943-8095. **(Scopus Indexed)**.
 12. **B. Panja**, S.K. Das and P. Sahoo, Tribological behaviour of electroless Ni-P coatings in brine solution and optimization of coating parameters using Taguchi based grey relation analysis, *Journal of the Institution of Engineers (India): Series C.*, vol. 96(3), pp. 299-309, **2015**. <https://doi.org/10.1007/s40032-015-0174-0> ISSN: 2250-0553. **(Scopus Indexed)**.
 13. **B. Panja** and P. Sahoo, Study of Friction Performance of Electroless Ni-P Coatings in Brine Solution and Optimization of Coating Parameters, *International Journal of Applied Engineering Research*, vol. 10, No. 8, pp. 5900-5904, **2015**. ISSN: 0973-9769. **(Scopus Indexed)**.
 14. **B. Panja** and P. Sahoo, Friction characteristic of electroless Ni-P coatings in acidic medium and optimization of coating parameters, *International Journal of Applied Engineering Research*, vol. 10, No. 11, pp. 10043-10047, **2015**. ISSN: 0973-9769. **(Scopus Indexed)**.
 15. **B. Panja**, S.K. Das and P. Sahoo, Tribological behavior of electroless Ni-P coating in brine environment, *Journal of the Institution of Engineers (India): Series D*, vol. 95(2), pp. 153-159, **2014**. <https://doi.org/10.1007/s40033-014-0041-9> ISSN: 2250-2130. **(Scopus Indexed)**.
 16. **B. Panja** and P. Sahoo, Taguchi - grey based optimization of friction and wear of electroless Ni-P coatings in acidic environment, *International Journal of Surface Engineering and Interdisciplinary Materials Science*, vol. 2(2), pp. 53-69, **2014**. DOI: [10.4018/IJSEIMS.2014070104](https://doi.org/10.4018/IJSEIMS.2014070104) ISSN: 2166-7233. **(Scopus Indexed)**.
 17. **B. Panja** and P. Sahoo, Wear behavior of electroless Ni-P coatings in brine solution and optimization of coating parameters, *Procedia Technology*, vol.14, pp. 173-180, **2014**. <https://doi.org/10.1016/j.protcy.2014.08.023> ISSN: 2212-0173.
 18. **B. Panja** and P. Sahoo, Friction performance of electroless Ni-P coatings in alkaline medium and optimization of coating parameters, *Procedia Engineering*, vol. 97, pp. 47-55, **2014**. <https://doi.org/10.1016/j.proeng.2014.12.223> ISSN:1877-7058.
 19. **B. Panja** and P. Sahoo, Optimization of microhardness of electroless Ni-P coatings using Taguchi technique, *IOSR journal of Mechanical and Civil Engineering*, vol. 5, pp. 15-19, **2014**. ISSN: 2278 – 1684.
 20. **B. Panja** and P. Sahoo, Preparation of electroless Ni-P coatings and its tribological characterization in sulfuric acid corrosive environment, *Journal of Manufacturing Technology Research*, vol. 6, No. 1-2., pp. 49-62, **2014**. ISSN: 1943-8095. **(Scopus Indexed)**.
 21. **B. Panja** and P. Sahoo, Tribo-corrosion Behavior of Electroless Ni-P Coatings in Alkaline Corrosive Environment, *Portugaliae Electrochimica Acta*, vol. 32(5), pp. 303-313, **2014**. DOI: [10.4152/pea.201405303](https://doi.org/10.4152/pea.201405303) ISSN 1647-1571. **(ESCI Indexed)**.

List of Presentations in National/ International Conferences:

1. Arghya Gupta, Hitesh Ghosh, Kaushik Kumar, Joydip Roy, Debashis Majumda, Soumya Ghosh, and **Bikash Panja**, Study of CNC Turner Process Parameters of 45C8 Alloy based on surface Roughness, International Conference on Multifunctional Materials 2024, AIP Conference Proceedings (Communicated).
2. **Bikash Panja**, Suman Kumar Ghosh, Sayan Paul, Anupam Mallick, A study of anti-loosening ability between metric and bsw threaded fasteners, International Conference on Integrative Science and Engineering (ICISE) 2024, 20th & 21st June, 2024, Kolkata, India. Paper Id : ICISE/ME/010.
3. Md Ershad , Ravi Nigam, Arnab Das and **Bikash Panja**, Investigation of thermal and mechanical properties of a biocomposite comprising natural rubber and 45s5 bioglass particles, International Conference on Integrative Science and Engineering (ICISE) 2024, 20th & 21st June, 2024, Kolkata, India. Paper Id : ICISE/ME/015.
4. Ravi Nigam, Ramnivas Kumar, **Bikash Panja**, Ranjan Kumar, Fault Localization In Simply Supported Beam Using Detailed Wavelet Coefficients, International Conference on Integrative Science and Engineering (ICISE) 2024, 20th & 21st June, 2024, Kolkata, India. Paper Id : ICISE/ME/017
5. Suresh Gain and **Bikash Panja**, A Review On Laser Powder Bed Fusion Processing For Oxide Dispersion Strengthened Alloys, International Conference on Integrative Science and Engineering (ICISE) 2024, 20th & 21st June, 2024, Kolkata, India. Paper Id : ICISE/ME/027.
6. **Bikash Panja** and Anupam Mallick, Anti-Loosening Characteristics of 5/8 Inch HTS Threaded Fasteners under Vibratory Conditions, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India., Paper Id : ICSR/ME/006.
7. Trisha Paul , Arijit Mukherjee , Suresh Guin and **Bikash Panja**, A Review of Utilizations Materials from Industrial Waste, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India., Paper Id : ICSR/ME/007.
8. **Bikash Panja**, Md Ershad and Ranjan Kumar, Current Trends in Metal Matrix Composites: Materials, Manufacturing Technologies, and Applications, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India., Paper Id : ICSR/ME/008.
9. **Bikash Panja**, Soumya Ghosh, Arnab Das, Ranjan Kumar, Hydroelectric Energy in India: A Review, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India., Paper Id : ICSR/ME/009.
10. Md Ershad, Suresh Gain and **Bikash Panja**, Power Generation Using Ocean Waves: A Review, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/010.
11. Ranjan Kumar, Arnab Das, **Bikash Panja**, Md. Ershad, 3D Printing and Its Impacts on Sustainable Manufacturing Practices, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/001.
12. Ranjan Kumar, Arnab Das, **Bikash Panja**, Md. Ershad, Nanotechnology in Renewable Energy: A Pathway to Efficient Solar Cells, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/002.
13. Ranjan Kumar, Arnab Das, **Bikash Panja**, Md. Ershad, Sustainability in the Next Era of Energy: Evaluating Emerging Technologies, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/005.

14. Arnab Das, Ranjan Kumar, **Bikash Panja**, Md. Ershad, Current Trends of Machine Learning in Modern Manufacturing: A Review, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/016.
15. Arnab Das, Ranjan Kumar, **Bikash Panja**, Md. Ershad, Green Manufacturing Technologies: Reducing Environmental Impact through Process Innovation, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/019.
16. Arnab Das, Ranjan Kumar, **Bikash Panja**, Md. Ershad, Eco-friendly Ocean Power: Minimizing Environmental Impacts of Marine Energy Technologies, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/020.
17. Suresh Gain , **Bikash Panja**, Friction stir additive manufacturing characteristic, microstructure, and mechanical performances of aluminum-based alloys, 1st International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Kolkata, India, Paper Id : ICSR/ME/023.
18. A. Gupta, P. Dhara, J. Das, S. Kundu, D. Pramanik, S. Kundu and **B. Panja**, A Study on Kerf Width of EN36B Steel In WEDM, INCOM 2024, JU, Kolkata, India. Paper ID: INCOM 426. **2024**.
19. S. Banerjee, **B. Panja** and S. Mitra, A Study on Kerf Width of EN47 Spring Steel in WEDM, National Conference On Trends And Advances In Mechanical Engineering, Paper ID: TAME 127, **2019**.
20. **B. Panja** and S. Das, Antiloosening Ability of 5/8 Inch Stainless Steel BSW Threaded Fasteners, AIP Conf. Proceedings of 11th International Conference on Mechanical Engineering, **2016**, ID 1754, 030015-(1-6). <https://doi.org/10.1063/1.4958359> (**Scopus Indexed**).
21. **B. Panja** and S. Das, Comparing Antiloosening Ability Between M16 and 5/8 Inch BSW Threaded Fasteners, Proceedings of National Seminar on Application of Mathematics In Technology And Management, NiT, Kolkata, India, 2016, Page no. 23.
22. S. Banerjee, **B. Panja** and S. Mitra, Study of Roughness for EN 47 spring steel in WEDM, Proceedings of National Seminar on Application of Mathematics In Technology And Management, NiT, Kolkata, India, 2016, Page no. 29.
23. **B. Panja** and P. Sahoo, Wear Behaviour of Electroless Ni-P Coatings in Acidic Medium and Optimization of Coating Parameters Using Taguchi Method, Proceedings of 2nd International Conference on Advances in Mechanical Engineering and its Interdisciplinary Areas, CEM Kolaghat, India, **2015**, page no. 279-286.
24. **B. Panja** and S. Das, A Study of Anti-Loosening Ability of 5/8 BSW Fasteners under Vibration with High Tension Steel and Stainless Steel Bolts, Proceedings of the 1st International and 16th National Conference on Machines and Mechanisms, IIT Roorkee, India, **2013**, page no. 873-878.
25. **B. Panja** and S. Das, On the Anti-Loosening Characteristics of M16 Threaded Fasteners under Vibratory Conditions, Proceedings of 15th National Conference on Machines and Mechanisms, IIT Madras, India, **2011**, paper no. 30.

List of Technical Magazines:

1. **B. Panja** and S. Das, Laser Welding and Its Applications, Reason-A Technical Magazine of Kalyani Government Engineering College, Kalyani, India, **2010**, vol. IX, pp. 48-52.

List of Patent Published:

1. Indian Patent, **Design** Application no. **407218-001** dated **10.02.2024** (Title "EMPLOYEE PRODUCTIVITY MONITORING DEVICE"), reviewed, accepted and published.
2. Indian Patent Application no. **202331071140** dated **18.10.2023** (Title "AUTOMATED WALL PAINTING ASSISTIVE DEVICE"), reviewed, accepted and published.

3. Indian Patent Application no. **202231041420** dated **19.07.2022** (Title “SLICING DEVICE FOR VEGETABLES AND FRUITS”), reviewed, accepted and published.
4. Indian Patent Application no. **201631029886** dated **01.09.2016** (Title “A SYSTEM FOR GENERATION OF ELECTRICITY AND METHOD THERE OFF”), reviewed, accepted and published.

PAPER PRESENTED IN CONFERENCE / SYMPOSIUM / SEMINAR

Sl. No.	Name of the Conference/Symposium	Month/ Year	Title of the Paper
1	National Seminar on Application of Mathematics in Technology and Management, Narula Institute of Technology, Kolkata, India.	September / 2016	Comparing Antiloosening Ability Between M16 and 5/8 Inch BSW Threaded Fasteners.
2	11 th International Conference on Mechanical Engineering, BUET, Dhaka, Bangladesh.	December / 2015	Antiloosening Ability of 5/8 Inch Stainless Steel BSW Threaded Fasteners.
3	International Conference on Emerging trends in Manufacturing, Engines and Modeling, SVKM's NMIMS, Shirpur, Maharashtra, India	February/ 2015	Friction Characteristic of Electroless Ni-P Coatings in Acidic Medium and Optimization of Coating parameters.
4	2 nd International Conference on Advances in Mechanical Engineering and its Interdisciplinary Areas, College of Engineering & Management, Kolaghat, India.	January/ 2015	Wear Behaviour of Electroless Ni-P Coatings in Acidic Medium and Optimization of Coating Parameters Using Taguchi Method.
5	12 th Global Congress on Manufacturing and Management VIT University, Vellore, India	December / 2014	Friction performance of electroless Ni-P coatings in alkaline medium and optimization of coating parameters.
6	International Conference on Modeling, Optimization and Computing, Noorul Islam University, Kumaracoil, India	April/ 2014	Study of Friction Performance of Electroless Ni-P Coatings in Brine Solution and Optimization of Coating Parameters
7	2 nd International Conference on Innovations in Automation and Mechatronics Engineering, GH Patel College of Engg. & Tech, Ballabh Vidyanagar, India	March/ 2014	Wear behavior of electroless Ni-P coatings in brine solution and optimization of coating parameters.
8	19 th West Bengal State Science & Technology Congress, Saha Institute of Nuclear Physics, Kolkata, India	March/ 2012	Studying Loosening of Metric Fasteners under Vibration to Find out Good Anti-Loosening Fastening Elements.
9	15 th National Conference on Machines and Mechanisms - IIT Madras, India.	December / 2011	On the Anti-Loosening Characteristics of M16 Threaded Fasteners under Vibratory Conditions

REFRESHER COURSES / METHODOLOGY WORKSHOPS / TRAINING / FACULTY DEVELOPMENT PROGRAMMES ATTEND

Sl. No.	Name of Programme	Organized by	Duration
1	One week Faculty Development Programm on AI/ML Based Smart	Department of Electronics and Communication Engineering,	9 th Oct to 18 th Oct, 2023

	System for Energy, Helthcare and Agricultural Industries.	Narula Institute of Technology, Agarpara, Kolkata	
2	Faculty Development Programm on “CO PO Mapping & CO PO Attainment”	Greater Kolkata College of Engineering and Management, Baruipur, GKCEM Baruipur,	10 th July to 14 th July, 2023
3	One Week Faculty Development Programme on Smart Materials & Systems for Sustainable Development	Department of Mechanical Engineering, JIS College of Engineering, Kalyani, West Bengal.	28 th June to 3 rd July 2021
4	One Week Faculty Development Programme on Advanced Materials & Mechatronics System for Industrial Automation	Department of Mechanical Engineering, JIS College of Engineering, Kalyani, West Bengal.	8 th June – 12 th June, 2020
5	TEQIP Online Certification on Digital Transformation in Teaching Learning Process	IIT Bombay Powered by SWAYAM	14 th Feb – 6 th March, 2020
6	One Week Faculty Development Programme on Fluid Power Control System (Hydraulic and Pneumatic)	Department of Mechanical Engineering, Narula Institute of Technology, Agarpara, Kolkata	1 st July – 6 th July, 2019
7	One Week Faculty Development Programme on Modern Trends in Industrial Automation & Control	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	15 th Jan – 19 th Jan, 2018.
8	AICTE Sponsored Faculty Development Programme on Recent Developments in Artificial Intelligence & Robotics	Department of Electronics and Communication Engineering, Narula Institute of Technology, Agarpara, Kolkata	03 rd Jan – 13 th Jan, 2018.
9	Faculty & Staff Development Programme on “Recent Advancements in Computer Aided Design with Auto CAD”	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	31 st Jan -11 th Feb, 2017
10	Workshop on Smart Foundry:2020	Department of Mechanical Engineering, Jadavpur University	12 th November, 2016
11	Workshop on “Advanced Joining Technologies”	Department of Mechanical Engineering, NIT, Silchar (Assam)	17 th – 21 th October, 2016
12	Workshop on Application of LASER in Mechanical Industries and Seminar on Application of LASER in Materials Processing.	School of Laser Science and Engineering, Jadavpur University, Kolkata, India	7 th Jan – 9 th Jan, 2010.

WORKSHOPS / CONFERENCES ORGANIZED

Sl. No.	Name of the Programme	Organized by	Duration	Activity
1	International Conference on Sustainable Research and Development (ICSRD) 2024	Swami Vivekananda University, West Bengal – 700121 India.	25 th & 26 th September, 2024	Coordinator
2	International Conference on Integrative Science and Engineering (ICISE) 2024	Swami Vivekananda University, West Bengal – 700121 India.	20 th & 21 st June, 2024	Convenor
3	TEQIP Sponsored Two days national workshop on “Recent Advances in mechanical engineering”	Department of Mechanical Engineering, Narula Institute of Technology, Agarpara, Kolkata.	24 th & 25 th February, 2017	Coordinator
4	TEQIP Sponsored One Week Faculty Development Programme on Quality	IQAC, Narula Institute of Technology, Agarpara, Kolkata.	6 th -10 th March, 2017	IQAC Member

	Assurance Parameters of NBA			
5	Webinar on Role Modelling in Development of Engineering Science	Department of Mechanical Engineering, Narula Institute of Technology, Agarpara, Kolkata.	20 th April, 2020	Coordinator
6	International Webinar on Nanomaterials to Opportunities abroad	Department of Mechanical Engineering, Narula Institute of Technology, Agarpara, Kolkata.	8 th May, 2020	Coordinator
7	Webinar on Coal Base Thermal Power Plant	Department of Mechanical Engineering, Narula Institute of Technology, Agarpara, Kolkata.	11 th May, 2020	Coordinator

TRAINING COURSE ORGANISED:

Sl. No.	Name of the Programme	Organized by	Duration	Activity
1	CNC Manufacturing and Programming	Department of Mechanical Engineering, Swami Vivekananda University, West Bengal – 700121 India	10 th to 24 th July, 2024.	Course coordinator and Trainer

INVITED TALK

1. **Invite to deliver** a lecture on "**Prospect in Diploma education**" for the 2019 JEXPO aspirants. JIS School of Polytechnic, Kalyani, West Bengal.

SESSION CHAIR

1. International Conference on Engineering Materials and Sustainable Societal Development – 2024 (ICEMSSD 2024), 26th -27th April, 2024. JIS College of Engineering, Kalyani, West Bengal, India.
2. International Conference on Sustainable Research and Development (ICSRD) 2024, 25th & 26th September, 2024, Swami Vivekananda University, West Bengal – 700121 India.

EDITORIAL BOARD MEMBER,/REVIEWER

1. Reviewer for **IGI Global**. (Edited Book 'Composites and Advanced Materials for Industrial Applications', 2018)
2. Reviewer for **REASON- A Technical Journal**
3. Reviewer for **IGI Global** (Book chapter 'Optimizing Current Strategies and Applications in Industrial Engineering').
4. Reviewer for **The Association of Engineers**, India.
5. Reviewer for **IOP Science**.
6. Reviewer for Journal of **The Institution of Engineers (India): Series D**

INDUSTRIAL TRAINING

1. TIL Limited, 1 Taratola Road, Kolkata -24, India.

DATED: July, 2008

"CAT ACERT Engine Technology"

2. Kolaghat Thermal Power Station ,Purba Medinipur, India.

DATED : July , 2007

"Basic concept of Thermal Plant, Boiler, CHP, AHP, Water Plant,
Condenser, Economizer, Steam Turbine, Alternator, cooling Tower"

3. Durgapur Steel Plant (D.S.P), Durgapur, India.

DATED: October, 2005

"Basic concept of Steel Plant, Blast Furnace, Coke Ovens.
CHP, CCP, Wheel & Axle Plant"

PERSONAL DETAILS

Date of Birth : 07th January, 1986

Father's Name : Mr. Gobinda Panja

Sex : Male

Marital Status : Married

Nationality/Category : Indian/General

Languages Known : Read, write and speak - (English, Bengali), & Speak only – (Hindi).

I hereby declare that all the informations furnished above are true to best of my Knowledge.



Date: 17/01/2024

Place: Kolkata

Signature
(BIKASH PANJA)