

Name of the Faculty : Dr. Arnab Das

Designation : Assistant Professor

Department : Mechanical Engineering

No. of Publication : 15

**Journal Publication :**

| Type of Journal       | DOI No.                                                                                       | Name of the Article                                                                      | Name of the Author                                | ISSN No.           | Year of Publication |
|-----------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------|---------------------|
| Institutional Journal | NA                                                                                            | Integration of Renewable Energy in Manufacturing Technology: A Review                    | Souradip Roy and Arnab Das                        | 3048-5673 (Online) | 2024                |
| Scopus                | <a href="https://doi.org/10.5281/zenodo.14551480">https://doi.org/10.5281/zenodo.14551480</a> | Harnessing Wind Power: Challenges and Opportunities in Future Energy Systems             | Ranjan Kumar, Arnab Das                           | 1671-1793          | 2024                |
| Scopus                | <a href="https://doi.org/10.5281/zenodo.14551500">https://doi.org/10.5281/zenodo.14551500</a> | Eco-friendly Ocean Power: Minimizing Environmental Impacts of Marine Energy Technologies | Arnab Das, Ranjan Kumar, Bikash Panja, Md. Ershad | 1671-1793          | 2024                |

**Book Chapter Publication :**

| DOI No.                                                                                 | Name of the Article                                                                                                       | Name of the Author                    | ISBN No.          | Year of Publication |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|---------------------|
| NA                                                                                      | Synthesis of ZnO Nanostructured CFRP Composites by Hydrothermal Method and its Machinability Analysis                     | Arnab Das, Ravi Shankar Rai           | 978-81-964878-5-0 | 2024                |
| NA                                                                                      | Diamond Turning: An Advancement Towards Superfinishing For Diverse Materials                                              | Arnab Das                             | 978-81-964878-9-8 | 2024                |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Evaluating the Effectiveness of Support Vector Machine Kernels for Gear Fault Detection: Insights from Confusion Matrices | Sandeep Kumar Paral, Ranjan Kumar and | 978-93-6233-705-4 | 2024                |

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|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------|------|
|                                                                                         | and Receiver Operating Characteristic Analysis                                                                                            | Arnab Das                                                                     |                   |      |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Design of Loop Layout in Flexible Manufacturing System using Particle Swarm Optimization Technique                                        | Ravi Shankar Rai, Milind M. Patil, Vasim A. Shaikh, Ravi Nigam, and Arnab Das | 978-93-6233-705-4 | 2024 |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Parametric Observation of Surface Roughness and Burr Formation on Mild Steel using Micro Milling Operation                                | Prince Anand, Bikash Panja, Ranjan Kumar and Arnab Das                        | 978-93-6233-705-4 | 2024 |
| <a href="https://doi.org/10.62906/bs.book.211">https://doi.org/10.62906/bs.book.211</a> | Ranking Analysis Based on the Multi-Criteria Optimization of Technical Specifications to select the best Lathe Machine by Topsis Method   | Amit Rakshit, Kunal Dey, Bikash Panja, Ranjan Kumar and Arnab Das             | 978-93-6233-761-0 | 2024 |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Assessment of Titanium Machining Employing Wire Electrical Discharge Machining through an Artificial Intelligence (AI) based Optimisation | Debal Pramanik, Arnab Das, Ranjan Kumar and Bikash Panja                      | 978-93-6233-705-4 | 2024 |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Impact of Lanthanum Oxide on the Physical and Mechanical Characteristics of Calcium Fluoroaluminosilicate Glass Systems                   | Md. Ershad, Ranjan Kumar, Bikash Panja and Arnab Das                          | 978-93-6233-705-4 | 2024 |

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|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------|
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Investigating the Hydrophobicity and High Temperature Mechanical Properties of Hard Nanocomposite Al-Si-N Thin Films | Md. Ershad, Ranjan Kumar, Bikash Panja and Arnab Das                   | 978-93-6233-705-4                                                                               | 2024 |
| <a href="https://doi.org/10.62906/bs.book.209">https://doi.org/10.62906/bs.book.209</a> | Identification of Fault in the Beam Utilizing Mean of Wavelet Coefficients: A Numerical Analysis                     | Ravi Nigam, Ramnivas Kumar, Arnab Das, Ranjan Kumar and Vikrant Sharma | 978-93-6233-705-4                                                                               | 2024 |
| NA                                                                                      | Surface topographical characterization of ZnO nanostructured CFRP composite in high speed micro drilling             | Arnab Das, Ravi Shankar Rai, Vivek Bajpai                              | Accepted for Book Chapter in Lecture Notes in Mechanical Engineering, Springer [Scopus Indexed] | 2024 |

Other Publication Details (if any)

### **Patents**

1. Ranjan Kumar, **Arnab Das**, Saikat Chatterjee, “A load handling device for construction and hawking work”, **Indian Design Patent**. (Filed) (2024)