

NEWSLETTER

Swami Vivekananda University, Barrackpore



DEPARTMENT OF MECHANICAL ENGINEERING

“NO TECH WITHOUT MECH”

The department of Mechanical Engineering, Swami Vivekananda University offers state of the art education, well equipped classroom, high end laboratories and cutting-edge research facilities for the students to create, enable, apply and spread knowledge in the advanced field of Mechanical Engineering. In addition to curriculum courses, the department contributes to value added courses, guest lecture by industry experts, industrial visits and various add on activities for the students to make them future ready technocrats of academia & industry. We are committed to work in emerging areas and to develop sustainable technologies & innovations pertaining to mechanical engineering and its allied sectors.

WHAT'S NEW

- Book published
- Article published
- Organized a Workshop on Research Funding
- Memorandum of Understanding (MoU) Signed.

EDITORIAL

In pursuit of Swami Vivekananda University's vision of excellence, innovation, and entrepreneurship, the Department of Mechanical Engineering is committed to contribute the best possible and feels immense pleasure to share this newsletter with all of you. The department has a vision to emerge as an excellent center of skill-based learning in Mechanical Engineering to develop professionals who are technically competent, ethical and capable of addressing the changing societal needs with credibility. The department has focused to continued enhancement of its facility to cater the overall anticipation of industry and academia. We are thrilled to announce several exciting developments at our department. Department of Mechanical Engineering of Swami Vivekananda University continues to shine with recent accomplishments. The publication of the book Innovative Solutions and Sustainable Development: Bridging Technology and Science for a Greener Future by Scientific International Publishing, edited by SVU faculty, highlights advance in green energy and design engineering. Springer Nature Singapore published Exploring Kerf Width in Wire EDM of EN36B Steel, as a lecture note by faculty member, focusing on Wire EDM precision. Additionally, a workshop on research funding, led by Dr. Anant Ram, empowered faculty with grant strategies. An MoU with Wegrow Bhubaneswar further supports education, skill development, and innovation. For all these achievements, I express my sincere thanks to our students and faculty members for their invaluable contributions and countless efforts. We conclude with a commitment to pursuing excellence and look forward to sharing an enhanced version in the next issue.

HOD (Mechanical Engineering)

Book published:

One eddied Books titled “Innovative Solutions and Sustainable Development: Bridging Technology and Science for a Greener Future” has been published by well-known publisher Scientific International Publishing house and editors of these book are Ranjan Kumar, Associate Professor & HOD, Mechanical Engineering Department, SVU, Abhishek Dhar, Assistant Professor & Faculty Coordinator, SVU, Ashes Banerjee, Assistant Professor, Civil Engineering Department, SVU, and Arnab Das, Assistant Professor, Mechanical Engineering Department, SVU This book explores cutting edge developments in green energy and design engineering, emphasizing innovative solutions, interdisciplinary approaches, and practical applications in engineering challenges.

Author's Profile



Dr. Ranjan Kumar is currently Head of the Department and Associate Professor in the Department of Mechanical Engineering at Swami Vivekananda University, Kolkata. Dr. Kumar received his Master's and Doctoral degrees in Mechanical Engineering from the Indian Institute of Technology Dhanbad. His research interests include Li-ion batteries, finite element simulation and analysis of real engineering problems, and vibration analysis of structures. He has executed projects in association with the Gas Turbine Research Establishment (GTRE), DRDO lab Bangalore. He has guided 02 PhD Thesis and 32 post graduate dissertation. Dr. Kumar has authored 18 books, published 51 research papers, and holds 21 patents. He also serves as editor-in-chief of Journal of Mechanical Engineering Advancements.



Mr. Abhishek Dhar, a dynamic academicien and a prolific mentor, serves as an Assistant Professor, in the Department of Electrical Engineering and as well as holds the prestigious post of Joint Academic Co-ordinator of the esteemed institution Swami Vivekananda University. His research, published in 15 prestigious international journals and conference papers, focuses on efficient energy utilization, grid stability, IoT etc. He has in his golden feather 04 patents filed and published with his hard work and dedication. He fosters an inclusive learning environment, nurturing diverse talents. His dedication has earned his recognition, bridging academia and industry seamlessly.



Dr. Ashes Banerjee is an Assistant Professor in the Civil Engineering Dept. at Swami Vivekananda University, Kolkata, West Bengal. He earned his Ph.D. in Water Resource Engineering from the Indian Institute of Technology (Indian School of Mines) in Dhanbad, India, in 2020. Dr. Banerjee's scholarly achievements are evidenced by his numerous publications in peer-reviewed international journals, covering crucial topics such as non-linear filtration in porous media, water quality, and groundwater utilization.



Dr. Arnab Das is currently Assistant Professor in the Department of Mechanical Engineering at Swami Vivekananda University, Kolkata. Dr. Das has achieved his Ph.D. in Mechanical Engineering from Indian Institute of Technology (ISM) Dhanbad in 2023. His research interests include advanced manufacturing processes, micro-machining, composite materials, and battery energy storage system. Dr. Das has published several journal articles extensively on topics such as micro-machining, ultra-precision machining, advanced manufacturing with multiple Patents in various fields.



Article published:

One Lecture Notes in Mechanical Engineering titled “Exploring Kerf Width in Wire EDM of EN36B Steel: A Statistical Analysis” has been published with Advances in Materials, Manufacturing and Design by well-known publisher Springer Nature Singapore Pte Ltd, and the associate author of these lecture note is Bikash Panja, Professor, Swami Vivekananda University. This article explores the precision of Wire EDM in shaping complex geometries.

**Organized a Workshop on Research Funding (22nd January, 2025)**

Swami Vivekananda University organized a workshop on *Research Funding* on 22nd January 2025, aimed at equipping faculty with strategies to secure grants from government funding schemes. The session was led by Dr. Anant Ram, Advisor, Higher Education Accreditation & Research Promotion (HEARP), New Delhi.

Dr. Ram shared valuable insights into navigating various government initiatives and crafting successful proposals to enhance research opportunities. He highlighted the importance of aligning research goals with national priorities to secure funding effectively. The workshop witnessed active participation from faculty members across departments, who engaged in discussions and sought guidance on proposal writing and project management. The event underscored Swami Vivekananda University's commitment to fostering a research-oriented academic environment and empowering its faculty with tools to excel in the competitive landscape of research funding.

Participants expressed appreciation for the practical insights and expressed enthusiasm for implementing the knowledge in their future research endeavours.



Memorandum of Understanding (MoU) Signed (Bhubaneswar, 17th January 2025).

Swami Vivekananda University and Wegrow Bhubaneswar signed a Memorandum of Understanding (MoU) on 17th January, 2025 at Bhubaneswar office to foster collaboration in education, skill development, and entrepreneurship. The agreement aims to provide students with hands-on training, internships, and career guidance, while also enhancing faculty development programs. The MoU was signed in Bhubaneswar in the presence of key representatives from both institutions. Officials emphasized the partnership's focus on bridging academia-industry gaps and promoting innovative learning approaches. This initiative is expected to create numerous opportunities for students, empowering them to excel in a competitive global environment.

