

# 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

- Organized a 2 Weeks Hands on Internship Program (CNC Manufacturing and Programming)
- ISSN allotment in the Departmental Journal entitled Journal of Mechanical Engineering Advancements (JMEA):
- Placement for Paid Internship
- Centre of Excellence Laboratory visit by renowned external experts.

## 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. Recently, we conducted a successful 2-week Hands-on Internship Program focusing on CNC Manufacturing and Programming, enriching students' practical skills. Additionally, our Departmental Journal, Journal of Mechanical Engineering Advancements (JMEA), has been allocated an ISSN, marking a significant milestone in academic recognition. We are proud to share that our students have secured paid internships, furthering their professional growth. Furthermore, our Centre of Excellence Laboratory welcomed esteemed external experts, enhancing our research and innovation capabilities. These initiatives highlight our commitment to excellence in education and industry engagement. 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)

### **Organized a 2 Weeks Hands on Internship Program (CNC Manufacturing and Programming):**

SVU The Department of Mechanical Engineering, SVU recently hosted an enriching two-week Hands-on Internship Program focused on CNC Manufacturing and Programming from 10<sup>th</sup> July to 24<sup>th</sup> July, 2024. The initiative, spearheaded by faculty members of the Mechanical Engineering Department at SVU, aimed to impart practical skills and knowledge. About 40 students from various Government and Private polytechnic institutions have voluntarily participated in this internship course. The event started with an inaugural address by HOD, Mechanical Engineering. In his inaugural address, emphasized the critical importance of practical training in complementing theoretical knowledge. He highlighted the rapid advancements in design and manufacturing technology and the growing demand for skilled professionals in CNC programming and operations. Stressing the role of initiatives like this internship program, he also encouraged the participating students to make the most of the opportunity to learn and apply their skills. The faculty members of the Mechanical Engineering Department are showcasing their commitment to guiding and mentoring the students throughout the program. Their presence underscored SVU's dedication to providing comprehensive education that bridges the gap between academia and industry.

**Training Sessions and Topics Covered:** Over the course of two weeks, the internship program covered a wide array of topics designed to equip students with practical expertise in CNC manufacturing and programming. The curriculum included:

1. **Introduction to Manufacturing Technology:** Understanding the principles and processes involved in modern manufacturing, with a focus on CNC techniques.
2. **CNC Programming and Operation:** Hands-on sessions where students learned to program CNC machines and operate them efficiently. This included practical demonstrations and simulations to reinforce theoretical concepts.
3. **SolidWorks Practice for Modeling:** Utilizing SolidWorks software, students gained proficiency in 3D modeling, a crucial skill for designing components and assemblies in engineering.
4. **Applications of 3D Printing:** Exploring the innovative applications of 3D printing in manufacturing, prototyping, and product development.

Each session was meticulously crafted to provide a balanced mix of theoretical insights and practical applications, ensuring that students could apply their learning in real-world scenarios.

**Course Completion and Certificate Distribution:** At the culmination of the internship program, an event was held to acknowledge the achievements of the participants. HOD and the faculty members distributed course completion certificates to each student, recognizing their dedication and successful completion of the program. The certificates served as a testament to the students' newly acquired skills and their readiness to contribute to the evolving field of mechanical engineering and manufacturing.



### **ISSN allotment in the Departmental Journal entitled Journal of Mechanical Engineering Advancements (JMEA):**

One The Departmental Journal, entitled Journal of Mechanical Engineering Advancements (JMEA), has been allotted an International Standard Serial Number (ISSN) to establish its unique identity and facilitate efficient cataloging and dissemination of its research contributions. The ISSN, 3048-5673 (online), serves as a standardized numeric code, ensuring the accurate identification of JMEA across various databases, libraries, and publishers worldwide. This allocation signifies JMEA's commitment to scholarly excellence in the field of mechanical engineering advancements. It enables researchers, academicians, and industry professionals to easily locate and reference the journal's articles, thereby enhancing its visibility and impact in the academic community. The ISSN allotment underscores JMEA's role as a credible source of innovative research and a vital platform for the exchange of knowledge and ideas within the mechanical engineering domain.



### **Published Issues**

[Volume 1 \(Issue 1 : January-April, 2024\): Published on: May 10, 2024](#)

ISSN: [3048-5673 \(Online\)](#)

[Call for Papers](#)

Journal of Mechanical Engineering Advancements call for original research articles, review articles, case studies in mechanical engineering, multi-disciplinary engineering sciences, and applied mechanics.

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### **Placement for Paid Internship:**

Akash Debnath, a fourth-year B.Tech student in Mechanical Engineering, has secured an internship placement at SNWEL Engineering Private Limited. This opportunity allows him to apply his academic knowledge in a practical industrial setting, gaining valuable experience in his field of study.



**Centre of Excellence Laboratory visit by renowned external experts.**

Renowned external experts Prof. (Dr.) Sumit Nandi, Principal, Harishchandrapur College, Malda, West Bengal and Dr. Rubi Das Chakraborty, Assistant Professor, IQAC Coordinator, Harishchandrapur College, Malda, West Bengal recently visited (22.07.2024) our two Centre of Excellence Laboratories, namely Centre for Advanced Manufacturing and Centre for Material Testing Characterization, enriching our research endeavors with invaluable insights. Dr. Nandi's visit marked a pivotal moment in our pursuit of excellence, as his expertise in the field brought forth new perspectives and recommendations. During his insightful tour, Dr. Nandi meticulously examined our state-of-the-art facilities, cutting-edge equipment, and ongoing projects. His keen observations and constructive feedback will undoubtedly guide us towards refining our methodologies and advancing our scientific endeavors. We are immensely grateful for Dr. Nandi's time and expertise, and we look forward to continued collaboration and growth under his mentorship.

