

# 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

- Industry-Academia Collaboration
- Successful organization of SVU Innovation-2023
- Workshop on Solid Modeling
- Workshop to Inspire budding Entrepreneurs.
- Knowledge Exchange with Other Reputed Institute
- Neighboring School Outreach Program
- IEI Student Chapter
- Industrial Visit to Parle Plant
- Cybersecurity Workshop

# 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. Department has consistently demonstrated its dedication to conducting exceptional research, yielding noteworthy outcomes in the form of numerous publications in reputable journals and granted patents.

Department has collaborated with IIT Kharagpur in terms of virtual lab project and established a student chapter with Institution of Engineers. At present, the Department of Mechanical Engineering has in lined centre of excellence in partnership with Bosch Rexroth and Tata Strive. Apart from the curriculum oriented UG/PG lab, department has also set up state-of-the-art research laboratory known as the Material Development and Characterization Lab, equipped with NABL-certified instrumentation. The department boasts a team of dedicated Master's and Ph.D. scholars, along with esteemed faculty members, actively engaged in research pursuits spanning a range of fields, including Hydrogen Engine technology, Biomaterial development, vibration analysis, additive manufacturing, and gas turbine research. Several of these research endeavors involve collaborations with renowned institutions such as Rowan University in the USA, Jadavpur University, BITS Pilani, Aliah University, CMERI, and NIT Durgapur. Its really pleasing to share that all the eligible students of its diploma, graduate as well postgraduate batch of current passing year. 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)



More than 390 students and 65 teams have participated in SVU Innovation 2023. This have been hosted at Swami Vivekananda University in Barrackpore, Kolkata, magnificently. Under the visionary leadership of Chancellor Dr. Nadan Gupta, Vice-Chancellor Prof. Dr. Subrata Kumar Dey, and Chief Operation Officer Sourav Adhikari, SVU continues to shine as an eminent bastion of education, research, and innovation in India, across its more than 50 departments



University has successfully on boarded more than 650 students from Engineering and management department to AICTE – Student Learning Assessment (PARAKH) portal. The main agenda of AICTE - SLA (PARAKH) is to motivate bridging the gap between academics and industry by providing a platform for self-assessment of knowledge and 21st century skill capabilities in students and faculty members to ensure global competitiveness



The 2023 batch witnessed an outstanding placement rate, with over 93 percent of students successfully securing positions. Furthermore, the ongoing success continues with a 60 percent placement rate for the 2024 batch.

### Top Recruiters:

Our students are actively participating in internships with renowned organizations such as BGR Energy System Limited, Bosch Limited, Energy Plus Power Services Limited, Keventer Agro Limited, Valeo India Pvt. Ltd., Dana Anand India Pvt. Ltd., Hindalco Industries Ltd., Yazaki India Pvt. Ltd., Piaggio Vehicles Pvt. Ltd., Sigma Engineered Solutions, Texmaco Rail & Engg. Ltd., TIDC India, and more.

Additionally, several of our students have already secured placements in esteemed companies, including Proton Metal Craft, Jai Bhawani Mata group of Companies (JBMI), Dhoot Transmission Ltd., Ronch Polymers Pvt. Ltd., KYB Industry Ltd., Marelli Motherson, Mann Hammel Pvt. Ltd., among others. This reflects our commitment to providing valuable opportunities and preparing students for successful careers.

## **Swami Vivekananda University and IIT Kharagpur Collaborate for Thrilling Tech Fest**

Swami Vivekananda University, in collaboration with IIT Kharagpur, hosted the dynamic tech fest 'Kascade' on November 28, 2023. With over 100 participants and 200 attendees, the event featured four engaging challenges, including coding and a math Olympiad. The success of Kascade, a testament to SVU's commitment to holistic education, was driven by a dedicated team. Beyond competition, the event celebrated innovation and collaboration, providing a platform for intellectual exploration. The collaboration with IIT Kharagpur enriched the experience, connecting students with a broader technical community and emphasizing SVU's dedication to shaping well-rounded individuals for success in technology.



## **SVU Innovation 2023: A Magnificent Showcase of Creativity and Ingenuity**

SVU Innovation 2023, held on September 22, showcased 390 students in 65 teams at the Barrackpore campus. Under the leadership of Chancellor Dr. Nadan Gupta, Vice-Chancellor Prof. Dr. Subrata Kumar Dey, and COO Sourav Adhikari, Swami Vivekananda University continues to excel in education, research, and innovation. With over 50 departments, SVU fosters an environment nurturing creativity and groundbreaking ideas. This event is a testament to SVU's dedication to inspiring students to contribute to the evolving landscape of innovation.

## **Mr. Prantik Sinha of Agastya Buoyant Pvt Ltd Inspires at SVU Barrackpore Campus**

Mr. Prantik Sinha, owner of Agastya Buoyant Pvt Ltd, honored Swami Vivekananda University's Barrackpore Campus with an insightful lecture on entrepreneurship strategies on August 8, 2023. Sharing valuable knowledge and experience, Mr. Sinha discussed overcoming challenges, building resilient businesses, and fostering innovation. His engaging session left an indelible mark on aspiring entrepreneurs, inspiring creativity, determination, and a strategic mindset. We extend our sincere gratitude for his contribution to our mission of providing holistic education beyond the classroom, and his insights will undoubtedly impact our students on their entrepreneurial journeys.





## Swami Vivekananda University and IIC Collaborate for a Grand Engineers Day Celebration

Swami Vivekananda University, in collaboration with the Innovation and Incubation Center (IIC), celebrated Engineers Day on September 15, 2023.

The event featured distinguished guests, Mr. Priyabrata Malla, Founder & Director of Snwel Engineering Private Limited (SEPL), and Dr. Aritra Dasgupta, Senior Engineer (Electrical) at Zuru Tech India Pvt. Ltd. The occasion provided students and faculty with valuable insights from industry leaders, fostering innovation and collaboration within the engineering community. This Engineers Day Celebration underscored SVU's commitment to offering enriching experiences and inspiring the next generation of skilled engineers.

## SVU Mechanical Department in Collaboration with Genex Engineering & Management Solutions Hosts Workshop on the Expansive Scope of Modeling

On September 16, 2023, at 01:30 pm, Swami Vivekananda University's Mechanical Engineering Department collaborated with Genex Engineering & Management Solutions for a workshop exploring the future of modeling in mechanical engineering. The session facilitated discussions, insights, and hands-on experiences, showcasing SVU's commitment to holistic education and industry integration. This collaboration highlights SVU's dedication to preparing students for the evolving landscape of mechanical engineering.



## Collaborative Progress: SVU Mechanical Engineering Department Inks MoU with KYB Motorcycle Suspension India Private Limited

Swami Vivekananda University's Mechanical Engineering Department announced a significant MoU with KYB Motorcycle Suspension India Private Limited on September 8, 2023. This alliance aims to foster mutual cooperation and knowledge exchange, bridging the gap between academia and industry. The partnership promises enhanced educational experiences for Mechanical Engineering students, offering hands-on learning, industry exposure, and research opportunities. Reflecting SVU's proactive approach, this collaboration strengthens its commitment to academic excellence and the holistic development of students.



### **Forging Industry-Academia Bonds: SVU Mechanical Engineering Department Signs MoU with Dhoot Transmission Private Limited**

Swami Vivekananda University's Mechanical Engineering Department reached a milestone on July 17, 2023, formalizing an MoU with Dhoot Transmission Private Limited. This collaboration emphasizes mutual cooperation, knowledge exchange, and joint initiatives between academia and industry. The MoU highlights SVU's commitment to providing students with industry-relevant experiences. Mechanical Engineering students at SVU will gain exposure to Dhoot Transmission's expertise and cutting-edge technologies. This partnership enhances the educational journey by offering practical applications of theoretical knowledge. Dhoot Transmission brings real-world challenges to the academic forefront, preparing students for the dynamic field of mechanical engineering. The collaboration reflects SVU's dedication to bridging theory and practice, providing holistic education beyond the classroom and reinforcing its commitment to academic excellence and industry relevance.



### **Knowledge Exchange: Dr. Ranjan Kumar, HOD of Mechanical Engineering at SVU, Enlightens ISM Dhanbad with Expert Talk**

On April 11, 2023, Dr. Ranjan Kumar, Head of Mechanical Engineering at Swami Vivekananda University, delivered an insightful talk at ISM Dhanbad. Focused on SVU's Mechanical Engineering Department, the session showcased innovative approaches and academic excellence. Dr. Kumar shared perspectives on advancements, curriculum enhancements, and unique initiatives, fostering knowledge exchange and academic camaraderie. Such interactions play a pivotal role in broadening horizons and contribute to SVU's commitment to academic excellence and intellectual growth..



### **SVU Department of Mechanical Engineering's Neighbor School Outreach**

Mechanical Engineering (ME) Department at SVU organized a highly successful outreach program for students at our neighboring school. The event aimed to foster academic interest, inspire curiosity, and promote a sense of community engagement.

Our dedicated team of ME faculty and students facilitated interactive sessions, engaging demonstrations, and informative presentations to make the learning experience enjoyable and educational.





### **Inauguration of the IEI Students Chapter at SVU's ME Department**

Mechanical Engineering (ME) Department at SVU has successfully established an Institute of Engineers (IEI) Students Chapter. This initiative aims to provide a platform for our students to enhance their technical knowledge, foster innovation, and promote a collaborative spirit. The IEI Students Chapter will facilitate various activities, including workshops, seminars, and industry interactions, to enrich the academic experience of our students.

### **SVU Mechanical Engineering Students' Educational Visit to Parle Agro Plant**

Students of the Mechanical Engineering Department at SVU undertook an insightful educational visit to the Parle Agro Plant on 13/04/23. The visit was organized to provide our students with a practical understanding of industrial processes and real-world applications of their academic knowledge and students had the opportunity to witness the state-of-the-art facilities at Parle Agro, gaining valuable insights into manufacturing techniques, quality control processes, and the overall functioning of a leading industry player.



### **Revolutionizing Education: SVU Mechanical Engineering Partners with Tata Strive and Microsoft for Cybersecurity Course**

A groundbreaking collaboration between the Department of Mechanical Engineering at SVU, Tata Strive, and Microsoft. Together, we are launching a comprehensive Cybersecurity Course, offered free of cost to our students as a part of our community development program. This will prepare our students for the evolving technological landscape.

### **Strategic Alliance: SVU Mechanical Engineering Department Inks MOU with Astram Technologies, South Africa**

The Mechanical Engineering Department at SVU is thrilled to announce a significant milestone in our pursuit of academic and technological excellence. We have recently signed a Memorandum of Understanding (MOU) with Astram Technologies Pvt Ltd, a prominent company based in South Africa.