



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

- Teacher's Day Celebration
- NSS Unit of Swami Vivekananda University Organizes “Yuva – Viksit Bharat” Programme
- Publication of Research Paper
- Devotional Celebration of Vishwakarma Puja
- Placement Success at Skipper India Ltd

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. This month, the Department of Mechanical Engineering celebrated several achievements and events. The department joyfully observed **Teacher's Day** and organized the "**Yuva – Viksit Bharat**" programme under the NSS Unit of Swami Vivekananda University. Faculty members achieved a **research paper publication**, and a **devotional Vishwakarma Puja** was celebrated with enthusiasm. Adding to the success, students secured **placements at Skipper India Ltd**, marking a proud moment of academic and professional excellence for the department.

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)

Teacher's Day Celebration by SVU Mechanical Engineering Students

The Department of Mechanical Engineering, SVU, celebrated Teacher's Day on September 5th with great enthusiasm. The program began with a welcome address and an inspiring speech by HOD Dr. Ranjan Kumar, followed by a joyful cake-cutting ceremony. Faculty members shared motivational insights, and students presented songs, recitations, and dances to honor their mentors. The celebration beautifully reflected the deep bond between teachers and students, filled with gratitude and respect. The event concluded with a heartfelt vote of thanks, celebrating the spirit of guidance, learning, and mutual appreciation.



NSS Unit of Swami Vivekananda University Organizes “Yuva – Viksit Bharat” Programme

The NSS Unit of Swami Vivekananda University organized the “Yuva – Viksit Bharat” programme on 20th September 2025 at Block 6, Room 3. The event, under the initiative of the Ministry of Youth Affairs and Sports, aimed to engage students in discussions on nation-building and youth empowerment. Distinguished speakers inspired the audience with insightful talks on leadership and development. Several mementos were presented to the guests in appreciation of their contributions. The programme witnessed enthusiastic participation from students and faculty members, making it a motivating and successful event.



Publication of New Research Paper by SVU Mechanical Faculty

The Department of Mechanical Engineering, Swami Vivekananda University, proudly announces that its faculty members Mr. Samrat Biswas and Mr. Soumya Ghosh have co-authored a significant research paper titled “Exergy and thermal performance analysis of solar air heater with novel hybrid tape vortex generators for rural applications.”

The paper has been published in the reputed journal Solar Energy (Volume 301, November 2025, Elsevier/ScienceDirect). This research explores innovative methods to enhance the thermo-hydraulic performance of solar air heaters through novel hybrid turbulator tape insert techniques, contributing to efficient and sustainable rural energy solutions.

Solar Energy

Volume 301, 15 November 2025, 113954

Exergy and thermal performance analysis of solar air heater with novel hybrid tape vortex generators for rural applications

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<https://doi.org/10.1016/j.solener.2025.113954> 

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Highlights

- The study improves SAH thermo-hydraulic output through novel hybrid turbulator tape insert techniques.

Devotional Celebration of Vishwakarma Puja at SVU Mechanical Engineering Department

The Department of Mechanical Engineering, SVU, joyfully celebrated Vishwakarma Puja on 17th September 2025 at Block 6 with great devotion and enthusiasm. The event began with a traditional puja ceremony, where faculty members, staff, and students offered prayers to Lord Vishwakarma, the divine architect and symbol of engineering excellence.

Honourable HOD Dr. Ranjan Kumar addressed the gathering, emphasizing the importance of skill, creativity, and dedication in the engineering profession. Students actively participated in decorating the workshop and arranging the rituals, showcasing teamwork and respect for their craft.

After the puja, prasadam was distributed, and light refreshments were shared among all. The event concluded with moments of fellowship and joy, reflecting the department's unity and devotion. The celebration highlighted the cultural and professional spirit that defines the Mechanical Engineering fraternity at SVU.



Placement Success: Ayush Karak at Skipper India Ltd., Uluberia

The Mechanical Engineering Department, SVU, proudly announces that Ayush Karak has been placed as Junior Engineer at Skipper India Ltd., Uluberia through the recent placement drive.

The department congratulates Ayush and hopes his achievement inspires other students to excel in their careers.