



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

- Webinar on Advancements and R&D Innovations in Laser-Based Manufacturing Systems
- Securing an ANRF Grant for hosting an upcoming International Conference
- Successful campus placements at ASC Technology Solutions and KYB Corporation.

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 faculty and students of Mechanical Engineering demonstrated excellence through active academic and professional engagement. A webinar on “Advancements and R&D Innovations in Laser-Based Manufacturing Systems” was successfully organized, featuring expert insights into emerging manufacturing technologies. The university proudly received an ANRF Grant for hosting an upcoming International Conference, marking a significant milestone in research promotion. Additionally, campus placement brought great success, with students securing positions at ASC Technology Solutions and KYB Corporation. 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)

Webinar on Advancements and R&D Innovations in Laser-Based Manufacturing Systems

The Department of Mechanical Engineering and Institution's Innovation Council, Swami Vivekananda University, organized a webinar on “Advancements and R&D Innovations in Laser-Based Manufacturing Systems” on Monday, 13th October 2025, at 2:30 PM. The session was delivered by Dr. Vikash Kumar from NIT Calicut, who shared valuable insights into the latest research and developments in laser-based manufacturing technologies. The event provided participants with an excellent opportunity to explore cutting-edge innovations and their industrial applications, fostering academic enrichment and research interest among students and faculty members.

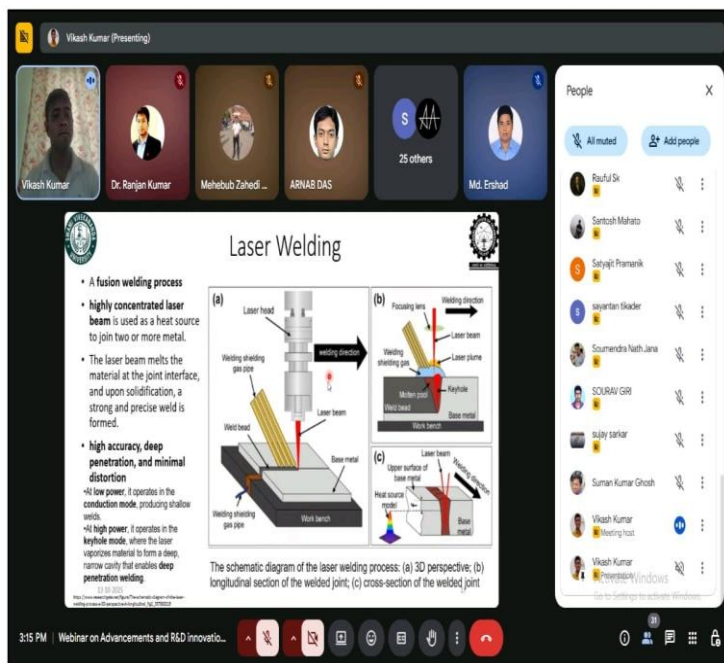



Webinar on Advancements and R&D Innovations in Laser-Based Manufacturing Systems

Organised by
**Institution's Innovation Council &
Department of Mechanical Engineering**
Swami Vivekananda University

**Monday
13th October, 2025 | 02:30 P.M.**

Speaker:
Dr. Vikash Kumar
NIT Calicut

Laser Welding

- A fusion welding process
- highly concentrated laser beam is used as a heat source to join two or more metal.
- The laser beam melts the material at the joint interface, and upon solidification, a strong and precise weld is formed.
- high accuracy, deep penetration, and minimal distortion
- low power: it operates in the conduction mode, producing shallow welds.
- high power: it operates in the keyhole mode, where the laser vaporizes material to form a deep, narrow cavity that enables deep penetration welding.

The schematic diagram of the laser welding process: (a) 3D perspective; (b) longitudinal section of the welded joint; (c) cross-section of the welded joint.

SVU Receives ANRF Grant for International Conference

Swami Vivekananda University, has received financial assistance of ₹2,00,000 from the Anusandhan National Research Foundation (ANRF) under the SERB Seminar/Symposia Scheme. The grant supports the 4th International Conference on Engineering Design and Computing - 2026, scheduled from February 27–28, 2026. The approved budget includes ₹60,000 for domestic travel of scientists, ₹30,000 for pre-conference printing, and ₹1,10,000 for contingency and incidental expenses. The proposal, submitted by Dr. Ranjan Kumar, Department of Mechanical Engineering, was reviewed and recommended for approval by ANRF.

Campus Placement Update –

- ❖ **ASC Technology Solutions:** The Department of Mechanical Engineering, Swami Vivekananda University, is proud to announce the successful placement of Purendu Nayek at ASC Technology Solutions for the position of Trainee Engineer – BIM (Mechanical). This achievement highlights the department's commitment to enhancing students' employability through quality education and strong industry partnerships.

Campus Placement Update –

- ❖ **KYB Corporation:** Swami Vivekananda University successfully conducted the On-Campus Placement Drive on 11th October 2025 in collaboration with KYB Motorcycle Suspension, an associate of Japan-based MNC KYB Corporation. A total of 54 candidates were selected, including 14 Diploma Mechanical and 8 B.Tech Mechanical students. The drive provided an excellent opportunity for students to begin their professional journey, reflecting the university's strong focus on skill development, career readiness, and fruitful industry collaboration. The department extends heartfelt congratulations to the selected students and wishes them continued success in his professional career.

