

MHRD'S  
INNOVATION CELL  
(GOVERNMENT OF INDIA)



**Report on an inspiring session with Dr. Prashant Rawat, Associate Professor, Department of Aerospace Engineering, IIT Madras how to be a "good engineer"**

**Title of the Session:** An inspiring session with Dr. Prashant Rawat, Associate Professor, Department of Aerospace Engineering, IIT Madras how to be a "good engineer"

**Organized By:** Institution's Innovation Council (IIC), Swami Vivekananda University, Kolkata

**Resource Person:** Dr. Prashant Rawat, Associate Professor, Department of Aerospace Engineering, IIT Madras

**Mode of Delivery:** Off-line

**No. of Participants:** 50

**Duration:** 8 Hours

**Nationality:** Indian

**Date & Venue:** 2<sup>nd</sup> March 2026, MSB Hall 3, Swami Vivekananda University, Barrack pore, Kolkata, West Bengal

**Objectives:**

- **To broaden students' perspective on engineering:** Help students understand that engineering is not limited to academic excellence but involves creativity, innovation, and practical application.
- **To introduce emerging technological domains:** Familiarize students with upcoming trends such as Industry 4.0, automation, artificial intelligence, and sustainable energy solutions.
- **To develop a problem-solving mindset:** Encourage analytical thinking, curiosity, and the ability to approach complex challenges systematically.
- **To bridge academia and industry:** Provide clarity on how theoretical concepts learned in classrooms can be effectively applied in real-world scenarios.
- **To guide career planning:** Offer practical insights into setting realistic goals, building strong fundamentals, and pursuing higher studies or research opportunities.
- **To inspire lifelong learning:** Motivate students to continuously upgrade their skills and remain relevant in a rapidly evolving technological landscape.

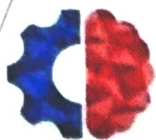
**Theme:**

**"Becoming a Future-Ready Engineer: Integrating Knowledge, Innovation, and Real-World Problem Solving"**

The session revolved around shaping students into engineers who are not only technically sound but also adaptable, innovative, and capable of addressing real-world challenges. It emphasized the importance of continuous learning, interdisciplinary thinking, and ethical responsibility in modern engineering practices.

Institution's Innovation Council (IIC),  
Swami Vivekananda University, Kolkata

  
Institution's Innovation Council  
Swami Vivekananda University

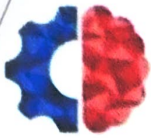


### Outcome:

- **Enhanced Career Awareness:** Students gained a clearer understanding of various career paths, including higher education, research, and industry roles.
- **Improved Motivation:** The session inspired students to pursue excellence and remain committed to continuous learning.
- **Skill Development Insight:** Participants recognized the importance of both technical and soft skills, including communication, teamwork, and critical thinking.
- **Industry Readiness:** Students understood the expectations of modern industries and how to align their learning accordingly.
- **Innovation Mindset:** The session encouraged students to think creatively and work on innovative ideas and projects.
- **Confidence Building:** Interaction with an expert boosted students' confidence in their abilities and future aspirations.

### Session Highlights:

- **Understanding Engineering Excellence:**  
Dr. Prashant Rawat emphasized that a good engineer is defined not just by technical knowledge but by the ability to think critically, innovate, and solve real-life problems efficiently.
- **Evolving Role of Engineers:**  
The session highlighted how the role of engineers is transforming in a tech-driven world, where interdisciplinary knowledge and adaptability are becoming increasingly important.
- **Exploration of Future Opportunities:**  
Students were introduced to high-growth areas such as Industry 4.0, sustainable and renewable energy, advanced aerospace research, and automation technologies.
- **Importance of Strong Fundamentals:**  
The speaker stressed the need to build a solid foundation in core subjects, as they form the backbone for advanced learning and innovation.
- **Practical Career Guidance:**  
Valuable advice was shared on setting goals, maintaining curiosity, engaging in projects, and developing skills that align with industry needs.
- **Bridging Theory and Practice:**  
The discussion focused on how students can apply classroom knowledge to solve real-world engineering problems, making them industry-ready.
- **Interactive Q&A Session:**  
Students actively engaged with the speaker, asking questions about career paths, higher education, and research opportunities, making the session highly interactive and enriching.



**Glimpse of the event:**

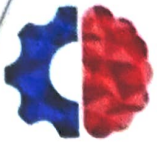


**General Participants Feedback:**

- Participants found the session highly inspiring, insightful, and career-oriented.
- Many appreciated the practical approach and real-life examples shared by the speaker.
- Students expressed that the session helped them gain clarity about their future goals and career direction.
- The emphasis on fundamentals and problem-solving was particularly valued.
- The interactive nature of the session made it engaging and thought-provoking.
- Several participants mentioned feeling motivated to explore new technologies and research areas.
- Overall, the session was regarded as a valuable learning experience that went beyond traditional classroom teaching.

**Institution's Innovation Council (IIC),  
Swami Vivekananda University, Kolkata**

*Lone*  
**Institution's Innovation Council  
Swami Vivekananda University**



**MHRD'S  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)




**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of HRD Initiative)

### **Recommendations:**

- Incorporate sustainable practices in future Programs.
- Encourage collaborative initiatives among participants.
- Ensure continued engagement through follow-up workshops or sessions.

### ***Signature of the Convener with University Seal***

**Convener:**

**Dr. Ranjan Kumar,**   
Convener, IIC Cell      Institution's Innovation Council  
Associate Professor & Head, Dept. of Mechanical Engineering,  
Swami Vivekananda University, Kolkata-700121.