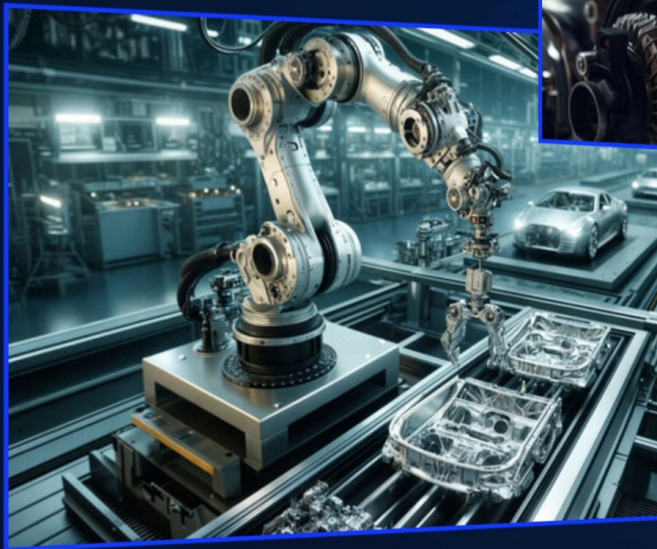
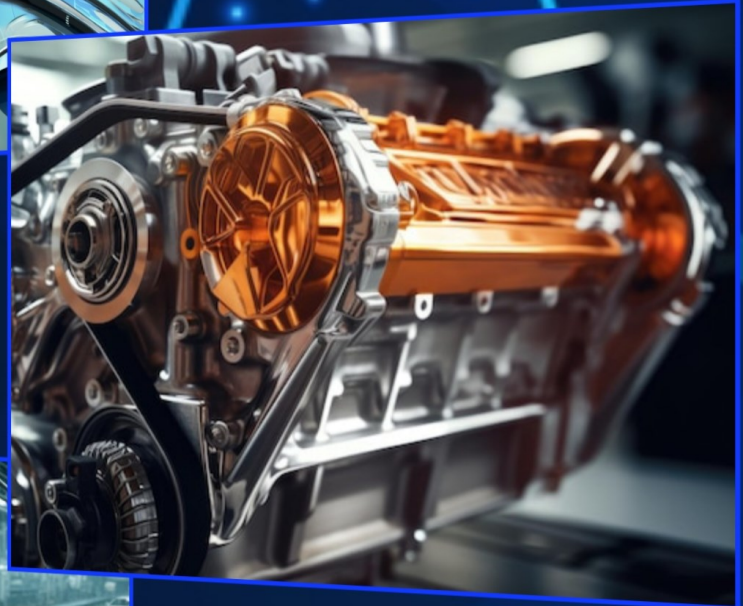
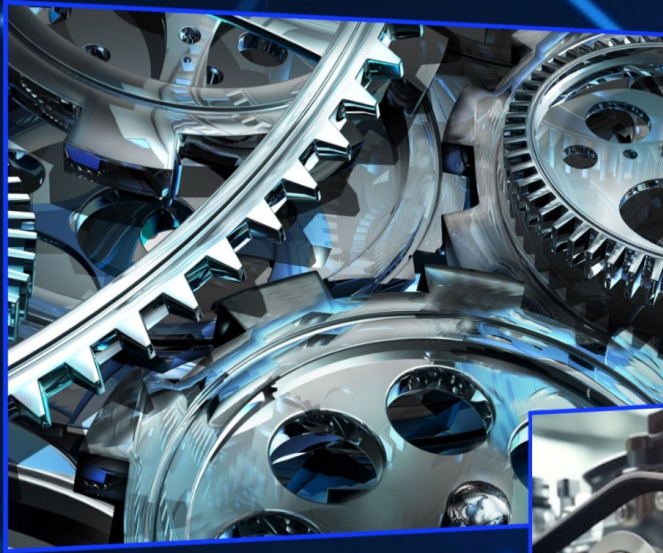


# MECH TIMES

VOLUME IV, ISSUE I

Jan - June 2024



**DEPARTMENT OF MECHANICAL ENGINEERING**

Engineering the future with precision, innovation, and the power of mechanical design.

# Table Of Contents

- 
- 01** Message from HOD
  - 02** Prof. Shankar Singh takes over as new Head of Department (Mechanical)
  - 03** National Board of Accreditation (NBA) to department
  - 04** Faculty Development Programs/ Seminars/ Workshops organised by Department
  - 05** International Conference Attended by Faculty
  - 06** Faculty Achievements
  - 07** Student Corner
  - 08** Placement Highlights
  - 09** Alumni Corner
  - 10** Publications



## Message from HOD



Welcome to the Department of Mechanical Engineering at Sant Longowal Institute of Engineering & Technology, SLIET (*Accredited by NAAC with 'A' Grade*) (*Deemed-to-be-University*) Longowal. The Institute started the journey by offering Certificate and Diploma Programmes in 1991. Later the degree program was initiated in the year 1993.

Mechanical engineering is one of the broadest and most versatile of the engineering professions and is mainly concerned with the responsible development of products, processes, and power, at scales ranging from molecules to large and complex systems.

LIET Mechanical Department is a strong community of highly qualified, passionate and experienced faculty, capable & skilled technical staff who are dedicated towards the development of our students (UG/PG/Research Scholars). The department has excellent infrastructure and laboratory facilities with state-of-the-art equipment's, to carry out practical's & research in all areas related to Mechanical Engineering.

Our objective is not to merely produce professionals capable to serve their own needs but endeavour to serve the society with great concern for human values. The hands-on-practice at Mechanical Engineering departments is contributing strongly in automobile, thermal, design and manufacturing areas.

The department offers a number of programs at different levels ICD, Diploma, Degree and PG programs. Research areas covering such as Non-conventional Machining, Hybrid Machining, Composite materials, Functional nanomaterial's, Automotive Engineering., Bio energy & Alternative fuels, Precision metrology, Optimization, Modelling and Simulation, CAD, FEA, Welding Technology etc. and have undertaken many sponsored projects.

The department has been accredited by National Board of Accreditation (NBA). Recently the SLIET has been ranked 76th (Engineering) and 85th (University) in NIRF 2024 ranking.

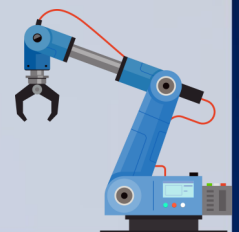
Thank you for visiting us.

Best wishes!

**Prof. Shankar Singh**

HOD, Mechanical Engg. (Date of taking charge: 20<sup>th</sup> May 2024)

Visit us at: [Linkedin Account](#)



## Prof. Shankar Singh takes over as new Head of Department (Mechanical)

The Department of Mechanical Engineering at Sant Longowal Institute of Engineering & Technology (SLIET), Longowal is delighted to announce the new Head of the Department Professor Shankar Singh. Consequent to the Office order Ref. No. SLIET/Admn./A1/2024-25/1004-1009; Dt. 17-05-2024, Prof. Shankar Singh joined as Head of the Mechanical Engineering on 20th May 2024 (FN). He will also Head the Department of Civil Engineering.

He brings not only cutting-edge expertise in advanced manufacturing, processing of composite materials, modelling & optimization and Automotive Engg., but also leadership qualities and a mind for strategic planning that will benefit the Department.

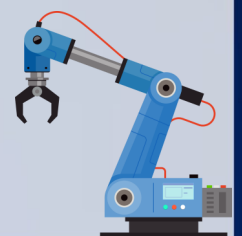
We look forward to working under his guidance and learning from their expertise.

Prof Singh said

*"I am delighted to be taking on these new tasks as Head of the Department. For me, the enhancing academic & research activities, further development and expansion of collaborations with industry, uplifting of Industry Institute interaction in Mechanical & Civil, are of central importance.*

*At the same time, we will continue our diverse research activities in order to generate relevant knowledge, enable evidence-based technology transfer (consultancy) and always have our finger on the pulse in terms of application.*

*Our departments have a team of highly qualified and experienced faculty, experienced technical staff, and excellent infra-structure and lab facilities."*





## National Board of Accreditation (NBA) to department

We are delighted to announce that our department has been successfully accredited by the National Board of Accreditation (NBA) for the upcoming three academic years: 2024-25, 2025-26, and 2026-27. This prestigious accreditation, valid until June 30, 2027, highlights our department's steadfast commitment to upholding the highest standards of quality education at the undergraduate level.

Achieving this accreditation is a reflection of the collective efforts, dedication, and hard work of our faculty, staff, and students. It underscores our continuous pursuit of academic excellence and reinforces our position as a leading institution in engineering education.

We are grateful for the support and contributions of everyone involved, and we remain committed to fostering a dynamic learning environment that prepares our students for success in their future careers. Together, we will continue to build on this success and strive for even greater achievements in the years ahead.

### राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड, नई दिल्ली -110003  
**NATIONAL BOARD OF ACCREDITATION**  
4<sup>th</sup> Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003



F. No. 31-04-2010-NBA

Date: 08/07/2024

To,  
The Principal,  
Sant Longowal Institute of Engineering and Technology,  
District Sangrur,  
Punjab-148106

**Subject: Further accreditation status on the basis of Compliance Report of the program in Tier I offered by Sant Longowal Institute of Engineering and Technology, District Sangrur, Punjab-148106.**

Sir,

This is regarding Compliance Report submitted by **Sant Longowal Institute of Engineering and Technology, District Sangrur, Punjab-148106** for the UG Engineering programs which were accredited by NBA in Tier-I for academic years 2021-22 to 2023-24 i.e. upto 30.06.2024.

2. An Expert Team conducted data verification of the programs on **15<sup>th</sup> and 16<sup>th</sup> June, 2024**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Electrical Engineering	Tier-I January, 2016 Document	Accredited	Academic Years <b>2024-2025 to 2026-2027 i.e. upto 30-06-2027</b>	Accreditation status granted is valid for the period indicated in Col.5 or till the programs has the approval of the competent authority, whichever is earlier.
2.	Electronics & Communication Engineering		Accredited		
3.	Instrumentation & Control Engineering		Accredited		
4.	Food Technology		Accredited		
5.	Chemical Engineering		Accredited		
6.	Mechanical Engineering		Accredited		

## Faculty Development Programs/Seminars/Workshops organized by the Department

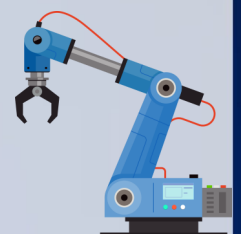
### Training programmes

1. A One Week Short Term Course (Hybrid Mode) on Advancements in Material Processing and Additive Manufacturing (AMPAM 2024) was organized by the Department of Mechanical Engineering, SLIET, Longowal from 8th -12th January 2024.

The Coordinator of STC AMPAM 2024 was Prof. Shankar Singh. The Chairperson of AMPAM 2024 was HOD (Mechanical) Prof A.S. Shahi. Co-cordinators were Prof. Indraj Singh and Er. Divesh Bharti, AP.

The AMPAM 2024 short-term course, focused on advancements in materials processing and additive manufacturing, was inaugurated on January 8, 2024, in the Mechanical Department at SLIET, Longowal. Prof. Mani Kant Paswan, Director of SLIET, was the Chief Guest and delivered a keynote address on "Manufacturing-Past, Present & Future." The course aimed to address Industry 4.0/5.0 demands and featured lectures and interactive sessions by distinguished experts from IITs, NITs, foreign universities, and industry leaders, including Dr. Prabhakar M. from Tata Motors Ltd.

The STC, running from January 8 to 12, 2024, included sixteen speakers who covered cutting-edge research and development, contributing to a sustainable society and "Atma Nirbhar Bharat." The event attracted 105 participants, including faculty members, research scholars, and students from various regions and even South Africa.





# ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਵਿਖੇ ਸਮਾਗਮ ਦਾ ਉਦਘਾਟਨ



ਸਲਾਈਟ ਵਿਖੇ ਸਮਾਗਮ ਦਾ ਉਦਘਾਟਨੀ ਸਮਾਗਮ ਮੌਕੇ ਮੁੱਖ ਮਹਿਮਾਨ ਪ੍ਰੋ. ਮਟੀ ਕਾਤ ਪਾਸਵਾਨ ਦਾ ਸਨਮਾਨ ਕਰਦੇ ਪ੍ਰਬੰਧਕ। (ਕਰਿਸ਼ਨਾ)

ਲੌਗੋਵਾਲ, 9 ਜਨਵਰੀ (ਬਹਿਸ਼ਟ, ਵਿਜੇ)-ਸੰਤ ਲੌਗੋਵਾਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨਾਲੋਜੀ (ਸਲਾਈਟ ਡਿਮਿਡ ਯੂਨੀਵਰਸਿਟੀ ਲੌਗੋਵਾਲ) ਦੇ ਮੈਨੇਜਿੰਗ ਡਿਰੈਕਟਰ ਵਿਭਾਗ ਵੱਲੋਂ ਆਰਗਨਾਈਜ਼ਡ ਇਨ ਮਟੀਕੋਲ ਪ੍ਰੋਗਰਾਮ ਅਤੇ ਐਡਵਾਂਸਿਡ ਮੈਨੂਫੈਕਚਰਿੰਗ 'ਤੇ ਇੱਕ ਹਫ਼ਤੇ ਦੇ ਸਮਾਗਮ (ਹਾਈਬ੍ਰਿਡ ਮੋਡ) ਦਾ ਉਦਘਾਟਨ ਕੀਤਾ ਗਿਆ।

ਇਸ ਸਮਾਗਮ ਦੇ ਆਰਗਨਾਈਜ਼ਰ ਸ਼ਿਵ ਸਿੰਘ ਅਤੇ ਸਮਾਗਮ ਆਰਗਨਾਈਜ਼ਰ ਇੰਦਰਾਜ ਸਿੰਘ ਅਤੇ ਇੰਜ. ਵਿਭਾਗ ਬਾਇਓ ਆਰਗਨਾਈਜ਼ਰ ਪ੍ਰੋਫੈਸਰ ਡੀ. ਐਸ. ਸ਼ਾਂਕਰ ਰਾਏ ਦਾ ਉਦਘਾਟਨੀ ਸਮਾਗਮ ਦੌਰਾਨ ਮੁੱਖ ਮਹਿਮਾਨ ਵਜੋਂ ਮਨੀ

ਕਾਤ ਪਾਸਵਾਨ, ਡਾਇਰੈਕਟਰ ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਅਤੇ ਵਿਸ਼ੇਸ਼ ਮਹਿਮਾਨ ਵਜੋਂ ਪ੍ਰੋ. ਜੇ. ਐੱਸ. ਵਿੱਲੋਂ ਡੀਨ ਅਕਾਦਮਿਕ ਨੇ ਸ਼ਿਰਕਤ ਕੀਤੀ। ਡਾਇਰੈਕਟਰ ਸ਼ਿਵ ਸਿੰਘ ਨੇ ਦੱਸਿਆ ਕਿ ਇਹ ਕੋਰਸ ਦਰਸ਼ਕਾਂ ਨੂੰ ਉਨਤ ਸਮੱਗਰੀ ਦੀ ਪ੍ਰੈਸੈਂਟੇਸ਼ਨ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾ 'ਚ ਇੱਕ ਉਨਤ ਬੁਨਿਆਦ ਪ੍ਰਦਾਨ ਕਰੇਗਾ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਅੱਜ ਖੁਸ਼ੀ ਮਹਿਸੂਸ ਹੋ ਰਹੀ ਹੈ ਕਿ ਸਲਾਈਟ ਤੋਂ ਛੇ ਡਾਗੇਦਾਰਾਂ ਸਮੇਤ ਪੰਜਾਬ, ਮਹਾਰਾਸ਼ਟਰ, ਉੱਤਰ ਪ੍ਰਦੇਸ਼, ਹਰਿਆਣਾ, ਤਾਮਿਲਨਾਡੂ, ਆਂਧਰਾ ਪ੍ਰਦੇਸ਼, ਬਿਹਾਰ, ਗੁਜਰਾਤ, ਰਾਜਸਥਾਨ, ਕਰਨਾਟਕ, ਤੇਲੰਗਾਨਾ, ਕੇਰਲ, ਓਡੀਸ਼ਾ, ਉੱਤਰਾਖੰਡ, ਪੰਜਾਬੀ ਬੰਗਾਲ ਅਤੇ ਦੱਖਣੀ ਅਫਰੀਕਾ ਨਾਲ ਸੰਬੰਧਿਤ ਕੁਲ 102 ਡਾਗੇਦਾਰਾਂ ਨੇ ਇਸ ਸਮਾਗਮ ਲਈ ਹਜ਼ਿਰਤ ਕੀਤੀ ਹੈ। ਮੁੱਖ ਮਹਿਮਾਨ ਪ੍ਰੋ. ਮਟੀ ਕਾਤ ਪਾਸਵਾਨ, ਡਾਇਰੈਕਟਰ ਸਲਾਈਟ ਨੇ ਮੈਨੂਫੈਕਚਰਿੰਗ ਬਾਰੇ ਮੁੱਖ ਡਾਗੇਦਾਰਾਂ ਦਿੱਤਾ ਜਿਸ ਦੀ ਹਾਜ਼ਰੀ ਅਤੇ ਡਾਗੇਦਾਰਾਂ ਦੁਆਰਾ ਪ੍ਰਸ਼ੰਸਾ ਕੀਤੀ ਗਈ।

# ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਮੈਂ ਸਮਾਗੀ ਪ੍ਰਸੰਸਕਰਣ ਮੈਂ ਪ੍ਰਗਤਿ ਪਰ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ ਸ਼ੁਰੂ



ਲੌਗੋਵਾਲ ਸੰਤ ਲੌਗੋਵਾਲ ਇੰਸਟੀਟਿਊਟ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਮੈਕੈਨਿਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਦੁਆਰਾ ਸਮਾਗੀ ਪ੍ਰਸੰਸਕਰਣ ਆਰ ਏਡਿਟਿਵ ਮੈਨੂਫੈਕਚਰਿੰਗ (ਏਮਐਮਏਮ 2024) ਸਬੰਧੀ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ (ਹਾਈਬ੍ਰਿਡ ਮੋਡ) ਕਾ ਓਦਘਾਟਨ ਕੀਯਾ ਗਯਾ। ਏਸਟੀਸੀ ਏਮਐਮਏਮ 2024 ਕੇ ਕੋ-ਆਰਡਿਨੇਟਰ ਪ੍ਰੋਫੇਸਰ ਸ਼ੰਕਰ ਸਿੰਘ, ਕੋ-ਕੋ-ਆਰਡਿਨੇਟਰ ਪ੍ਰੋ. ਓਦਰਾਜ ਸਿੰਘ, ਇੰਜੀਨੀਅਰ ਵਿਵੇਸ਼ ਭਾਰਤੀ ਆਰ ਚੇਯਰਪਸਨ ਪ੍ਰੋ. ਏਸ ਸ਼ਾਹੀ ਹੈ। ਇਸ ਮੌਕੇ ਸਲਾਈਟ ਕੇ ਨਿਰਦੇਸ਼ਕ ਪ੍ਰੋ. ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਨੇ ਮੁਖ਼ਯ ਮੇਹਮਾਨ ਆਰ ਡੀਨ (ਅਕਾਦਮਿਕ) ਪ੍ਰੋ. ਜੇਏਸ ਫਿਲਲੋਂ ਨੇ ਵਿਸ਼ੇਸ਼ ਮੇਹਮਾਨ ਕੇ ਟੀਰ ਪਰ ਸ਼ਿਰਕਤ ਕੀ। ਇਸ ਮੌਕੇ ਪ੍ਰੋ. ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਨੇ ਕਹਾ ਕਿ, ਅਪਨੇ ਪੇਸ਼ੇ ਮੋਂ ਕੁਝ ਸੀਖਣੇ ਕੇ ਲਿਏ ਸਮਯ ਨਿਵੇਸ਼ ਕਰਨਾ ਹਮੇਂ ਅਪਨੇ ਜ਼ਾਨ ਮੋਂ ਸਮੁਝ ਬਨਾਤਾ ਹੈ। ਇਸ ਕਥਨ ਕੋ ਧਯਾਨ ਮੋਂ ਰਖਣੇ ਫੁਲ ਮੈਕੈਨਿਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਨੇ ਏਸਟੀਪੀ ਏਮਐਮਏਮ 2024 ਕਾ ਆਯੋਜਨ ਕੀਯਾ ਹੈ।

# ਅਜੀਤ ਸਮਾਚਾਰ 7 15 ਜਨਵਰੀ, 2024 ਕਾਠਿੰਡਾ

## ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਮੈਂ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ ਕਾ ਆਯੋਜਨ



ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਮੈਂ ਮੈਕੈਨਿਕਲ ਵਿਭਾਗ ਦੁਆਰਾ ਆਯੋਜਿਤ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ ਕੇ ਸਮਾਗਮ ਮੌਕੇ ਮੁਖ਼ਯ ਮੇਹਮਾਨ ਪ੍ਰੋ. ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਕਾ ਸਮਾਨ ਓਰੇ ਫੁਲ ਪ੍ਰਬੰਧਕ। (ਭਯਾ: ਓਦਰਾਜ ਸਿੰਘ)

ਲੌਗੋਵਾਲ, 14 ਜਨਵਰੀ (ਹਰਜੀਤ ਸਮਾ): ਸਲਾਈਟ ਡੀਮਿਡ ਯੂਨੀਵਰਸਿਟੀ ਲੌਗੋਵਾਲ ਕੇ ਮੈਕੈਨਿਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਡਾਗ ਏਡਵਾਂਸਿਡ ਮੈਨੂਫੈਕਚਰਿੰਗ ਪਰ ਏਕ ਲਾਈਟ ਕਾ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ (ਹਾਈਬ੍ਰਿਡ ਮੋਡ) ਕਰਵਾਯ ਗਯਾ। ਇਸ ਸਮਾਗਮ ਕੇ ਸਮਯਕਕ ਪ੍ਰੋ. ਓਦਰਾਜ ਸਿੰਘ ਆਰ ਸਹ: ਸਮਯਕਕ ਪ੍ਰੋ. ਓਦਰਾਜ ਸਿੰਘ ਆਰ ਡੀ. ਵਿਵੇਸ਼ ਭਾਰਤੀ ਆਰ ਚੇਯਰਪਸਨ ਪ੍ਰੋ. ਏਸ ਸ਼ਾਹੀ ਹੈ। ਇਸ

ਹਰਿਆਣਾ, ਤਮਿਲਨਾਡੂ, ਅੰਧਰਾ ਪ੍ਰਦੇਸ਼, ਬਿਹਾਰ, ਗੁਜਰਾਤ, ਰਾਜਸਥਾਨ, ਕਰਨਾਟਕ, ਤੇਲੰਗਾਨਾ, ਕੇਰਲ, ਤਰੀਸ਼ਾ, ਤਰਾਸ਼ੰਪੁਰ, ਪੰਜਾਬੀ ਬੰਗਾਲ ਕੇ ਅਲਾਕ, ਪ੍ਰਮਿਡ ਵਿਕੀਓਂ ਸੰਘਯੋਂ, ਯੂਨਿਵਰਸਿਟੀਆਂ, ਆਈਟੀਆਈ, ਏਨਯੂਓ ਓ ਓ ਮਾਲਿੰ ਆਰ ਏਸ਼ਿਯ ਅਫਰੀਕਾ ਸੇ ਸੰਬੰਧਿਤ ਕੁਲ 105 ਡਾਗੇਦਾਰ ਇਸ ਸਮਾਗਮ ਮੋਂ ਸ਼ਾਮਿਲ ਫੁਲ। ਪ੍ਰੋ. ਸਿੰਘ ਨੇ ਬਥਾਯਾ ਕਿ ਇਸ ਸਮਾਗਮ ਕੇ ਡੀਰਾਜ 16 ਵਿਸ਼ੇਸ਼ੀਆਂ ਮੋਂ ਸੇ ਟੀਨ ਅੰਠਰ ਖਾਣੇਯ ਕਕਾ ਓਰੀਯ ਆਈਟੀਯ ਯੂਕੇ ਅਲਲਲ ਯੂਨਿਵਰਸਿਟੀ, ਸਿੰਗਾਪੁਰ ਕੀ ਨੈਸ਼ਨਲ ਯੂਨਿਵਰਸਿਟੀ ਆਰ ਯੂਏਐਫ ਕੀ ਆਈਓਯ ਯੂਨਿਵਰਸਿਟੀ ਸੇ ਖੇ ਆਰ ਆਈਓਯ ਵਿਕੋਲ ਟਾਟਾ ਮੋਟੋਰਜ਼ ਯਮਹੇਦਪੁਰ ਡਾਯਕੱਠ ਸੇ ਖੇ। ਮੁਖ਼ਯ ਮਹਿਮਾਨ ਪ੍ਰੋ. ਸਿੰਘ ਕਾੰਤ ਪਾਸਵਾਨ, ਡਾਯਕੱਠ ਸਲਾਈਟ ਨੇ ਮੈਨੂਫੈਕਚਰਿੰਗ ਕੇ ਬਾਰੇ ਮੁਖ਼ਯ ਖਾਣਾਯ ਡੀਏ ਫੁਲ ਕਹਾ ਕਿ ਯਥ ਸਮਾਗਮ ਓਲ ਸਾਧਮੀ ਪ੍ਰੋਮੋਸ਼ਿੰਗ ਆਰ ਓਈਟਿਵ ਨਿਯੋਗ ਕੇ ਭੇਤ ਮੋਂ ਕੈਨਾਨਿਕ ਪਰਿਓਲ ਕੇ ਲਿਏ ਖੀ। ਇਸ ਕਾ ਮੰਠਰ ਖਠਿਯ ਕੀ ਓਕੋਜ ਪ੍ਰਯਾਸੋਂ ਕੇ ਲਿਏ ਅਕਾਦਮਿਕ ਆਰ ਜੰਠ ਕਰਾਯ ਮੋਂ ਸਯਧੇਯਾ ਵਿਕਸਿਤ ਕਰਨਾ ਹੈ।

# ਸਲਾਈਟ ਲੌਗੋਵਾਲ ਮੈਂ ਏਕ ਸਪਠਾਠ ਕਾ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ ਕਰਵਾਯਾ

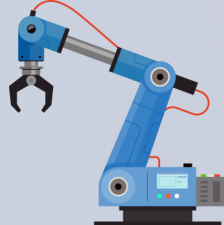
ਲੌਗੋਵਾਲ, 14 ਜਨਵਰੀ (ਬਹਿਸ਼ਟ, ਵਿਕਯ): ਸਲਾਈਟ ਡੀਮਿਡ ਯੂਨਿਵਰਸਿਟੀ, ਲੌਗੋਵਾਲ ਕੇ ਮੈਕੈਨਿਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਦੁਆਰਾ ਸਮਾਗੀ ਪ੍ਰਸੰਸਕਰਣ ਆਰ ਏਡਿਟਿਵ ਮੈਨੂਫੈਕਚਰਿੰਗ ਮੈਂ ਪ੍ਰਗਤਿ ਪਰ ਏਕ ਸਪਠਾਠ ਕਾ ਸ਼ਾਓਟ ਟਰਮ ਕੋਰਸ (ਹਾਈਬ੍ਰਿਡ ਮੋਡ) ਕਰਵਾਯਾ ਗਯਾ। ਇਸ ਆਯੋਜਨ ਕੇ ਸੰਯੋਜਕ ਪ੍ਰੋ. ਸ਼ੰਕਰ ਸਿੰਘ, ਸਹ. ਸਮਯਕਕ ਪ੍ਰੋ. ਓਦਰਾਜ ਸਿੰਘ, ਡੀ. ਵਿਵੇਸ਼ ਭਾਰਤੀ ਆਰ ਚੇਯਰਪਸਨ ਪ੍ਰੋਫੇਸਰ ਏ. ਏਸ. ਸ਼ਾਹੀ ਕੀ ਡੇਖਕੋਲ ਮੋਂ ਆਯੋਜਿਤ ਇਸ ਕੋਰਸ ਕੇ ਡੀਰਾਜ ਮੁਖ਼ਯ ਅਠਿਠਿ ਕੇ ਰੂਪ ਮੋਂ ਪ੍ਰੋ. ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਨਿਰਦੇਸ਼ਕ ਸਲਾਈਟ ਲੌਗੋਵਾਲ, ਵਿਸ਼ਿਟ ਅਠਿਠਿ ਕੇ ਰੂਪ ਮੋਂ ਆਰ ਪ੍ਰੋ. ਜੇ. ਏਸ. ਫਿਲਲੋਂ ਡੀਨ ਏਕੈਡਮਿਕ ਸ਼ਾਮਿਲ ਫੁਲ। ਸਮਯਕਕ ਪ੍ਰੋ. ਸ਼ੰਕਰ ਸਿੰਘ ਨੇ ਕਹਾ ਕਿ ਯਥ



ਮੁਖ਼ਯ ਅਠਿਠਿ ਪ੍ਰੋ. ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਕੋ ਸਮਾਮਿਤ ਕਰਣੇ ਪ੍ਰਬੰਧਕ। (ਬਹਿਸ਼ਟ) ਵਿਕਸਿਤ ਕਰਨਾ ਹੈ।

ਪਾਣੁਯਕ੍ਰਮ ਨੇ ਓਪਸਠਿਠ ਠੀਯੋਂ ਕੋ ਓਨਤ ਸਾਮਾਗੀ ਪ੍ਰਸੰਸਕਰਣ ਆਰ ਲਖ਼ਯ ਵਧੇਨ ਮੋਂ ਏਕ ਕਟੋਰ ਆਰ ਓਨਤ ਆਧਾਰ ਪ੍ਰਦਾਨ ਕਰੇਗਾ। ਇਸ ਮੋਂ ਪੰਜਾਬ, ਮਹਾਰਾਸ਼ਟ੍ਰ, ਉਤਰ ਪ੍ਰਦੇਸ਼, ਹਰਿਆਣਾ, ਤਮਿਲਨਾਡੂ, ਆਂਧ ਪ੍ਰਦੇਸ਼, ਬਿਹਾਰ, ਗੁਜਰਾਤ, ਰਾਜਸਥਾਨ, ਕਰਨਾਟਕ, ਤੇਲੰਗਾਨਾ, ਕੇਰਲ, ਓਡਿਸ਼ਾ, ਉਤਰਾਖੰਡ, ਪਰਿਚਮ ਬੰਗਾਲ ਕੇ ਅਲਾਕਾ ਪ੍ਰਾਠਿਠਿਟ ਵਿਦੇਸ਼ੀ ਸੰਸਠਾਨ, ਵਿਸ਼ਵਵਿਦਯਾਲਯ, ਆਈ.ਆਈ.ਟੀ., ਏਨ.ਆਈ. ਟੀ. ਵਿਸ਼ੇਸ਼ੀਆਂ ਆਰ ਏਸ਼ਿਯ ਅਫਰੀਕਾ ਸੇ ਸੰਬੰਧਿਤ ਕੁਲ 105 ਪ੍ਰਾਠਿਠਿਯੋਂ ਨੇ ਖਾਗ ਲਿਯਾ। ਪ੍ਰੋ. ਸਿੰਘ ਨੇ ਬਠਾਯਾ ਕਿ ਇਸ ਕਾਯਕ੍ਰਮ ਕੇ ਡੀਰਾਜ 16 ਵਿਸ਼ੇਸ਼ੀਆਂ ਮੋਂ ਸੇ ਟੀਨ ਅੰਠਰਾਪਣੀਯ ਕਕਾ ਉਤਰੀ ਆਯਰਲੈਂਡ ਯੂ.ਕੇ, ਅਲਲਲ ਵਿਸ਼ਵਵਿਦਯਾਲਯ, ਨੈਸ਼ਨਲ ਯੂਨਿਵਰਸਿਟੀ ਆਫ ਸਿੰਗਾਪੁਰ ਆਰ ਯੂਏਸ.ਏ. ਆਯੋਕਾ ਵਿਸ਼ਵਵਿਦਯਾਲਯ ਸੇ ਖੇ ਆਰ ਆਈਓਯ ਵਿਸ਼ੇਸ਼ ਟਾਟਾ ਮੋਟੋਰਜ਼, ਯਮਹੇਦਪੁਰ ਡਾਯਕੱਠ ਸੇ ਖੇ। ਮੁਖ਼ਯ ਅਠਿਠਿ ਪ੍ਰੋ. ਕੇ ਨਿਰਦੇਸ਼ਕ ਮਠਿਕਾੰਤ ਪਾਸਵਾਨ ਨੇ 'ਵਿਨਿਮੋਯ' ਪਰ ਮੁਖ਼ਯ ਖਾਯ ਡਿਯਾ ਆਰ ਕਹਾ ਕਿ ਯਥ ਕਾਯਕ੍ਰਮ ਓਨਤ ਸਾਮਾਗੀ ਪ੍ਰਸੰਸਕਰਣ ਆਰ ਏਡਿਟਿਵ ਮੈਨੂਫੈਕਚਰਿੰਗ ਕੇ ਭੇਤ ਮੋਂ ਟਕਨੌਕੀ ਆਰ ਵੈਨਾਨਿਕ ਪ੍ਰਗਤਿ ਕੇ ਲਿਏ ਆਯੋਜਿਤ ਕੀਯਾ ਗਯਾ ਹੈ। ਇਸਕਾ ਉਦੇਸ਼ਯ ਖਠਿਯ ਕੇ ਅਨੁਸੰਘਾਨ ਪ੍ਰਯਾਸੋਂ ਕੇ ਲਿਏ ਸ਼ਿਸ਼ਾਵਿਦੀ ਆਰ ਸੋਧਕਰਾਠੀਆਂ ਕੇ ਬੀਚ ਸਹਯੋਗ ਵਿਕਸਿਤ ਕਰਨਾ ਹੈ।

2. A One-Day Seminar on Dr. Sarvepalli Radhakrishnan is being organized by Dr. Rakesh Kumar on September 15, 2024. This event is sponsored by the IEE-SLIET Student Chapter in collaboration with the Department of Mechanical Engineering. The seminar will celebrate the life and contributions of Dr. Radhakrishnan, focusing on his role as a philosopher and educator. Participants will gain insights into his impact on modern education and philosophy





3. A **One-Day Workshop on the Birth Anniversary of Dr. Mokshagundam Visvesvaraya** is being organized by Dr. Rakesh Kumar and Dr. Harish Arya on September 15, 2024. The event was sponsored by the IEI-SLIET Student Chapter in collaboration with the Department of Mechanical Engineering, will honour the legacy of the esteemed Indian civil engineer. The workshop will delve into his contributions to engineering and
4. The **Entrepreneur Awareness Program**, scheduled for February 28-29, 2024, will be hosted with the participation of 60 attendees. This initiative is designed to empower individuals with the tools and resources necessary to navigate the entrepreneurial landscape, encouraging innovation and fostering a spirit of enterprise. Dr. Rakesh Kumar will coordinate the program, with Dr. Sanjeev Bansal and Dr. Manoj Goyal serving as co-coordinators.
5. A one day workshop on "Project Execution: Conceptualization, Presentation, and Report Writing," held on March 13, 2024. This course covered effective techniques for conceptualizing projects, strategies for delivering impactful presentations, and best practices for writing comprehensive project reports. The program was designed to enhance skills in managing projects from initial idea to final documentation. The course was coordinated by Prof. Indraaj Singh Dr. J.S. Gill, Dr. Sunil Kumar, Dr. Anuj Bansal, and Er. Divesh Bharti.

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Time : 04:30 PM Onwards  
Date : 28th - 29th Feb, 2024  
Mode : Online / Offline  
Venue : LCF1, Chemical & Food Block, SLIET

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**Program Coordinator/Trainer**

Dr. Gulshan Jawa  
Chairman, techFEST SLIET

Dr. Sanjeev Bansal  
Professor, SLIET

Dr. Rakesh Kumar  
Associate Professor, SLIET

Dr. Manoj K. Goyal  
Associate Professor, SLIET

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• Conceptualization of Project  
• Rules to be followed

Topic 2  
• Presentation of Topic, in the form of PPT

Topic 3  
• Final Report  
• Final Semester Report Writing  
• Project Writing

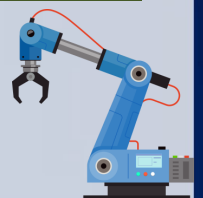
**13 March 2024**  
At 3 PM

**ORGANIZERS**

PROF. INDRAJ SINGH CO-VEENER  
DR. J.S. GILL COORDINATOR  
DR. SUNIL KUMAR CO-COORDINATOR  
DR. ANUJ BANSAL CO-COORDINATOR  
ER. DIVESH BHARTI CO-COORDINATOR

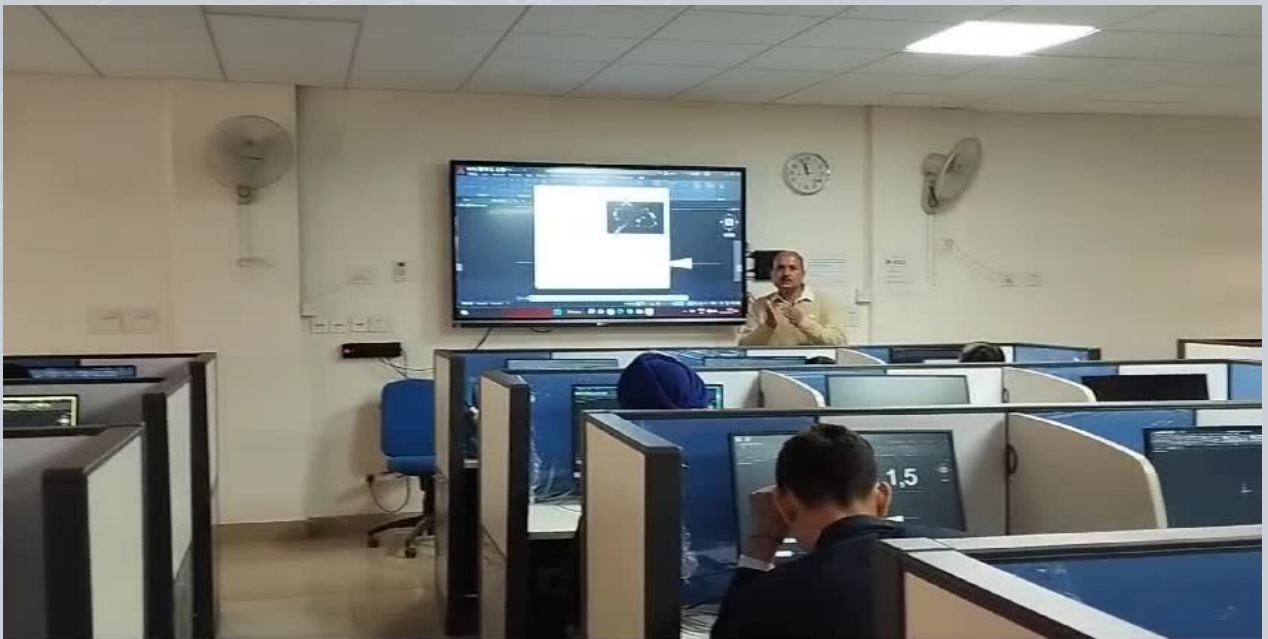
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N602  
MECHANICAL ENGINEERING DEPARTMENT

Contact Us : [reg@sliet.ac.in](mailto:reg@sliet.ac.in)  
+91-98523-63000





6. The skill training programs in AutoCAD were from February 27, 2024, to March 1, 2024 and from March 4, 2024 to March 7, 2004 is organized in Department of Mechanical Engineering, SLIET Longowal through Institute Innovation Cell . This program will be attended by 30 students of the 6th and 8th grades of Jawahar Navodaya Vidyalaya Longowal.. The training, organized by Dr. A. S. Shahi, Dr. R. K. Saxena, and Dr. Sunil Kumar, aims to enhance the participants' technical skills in design, drafting, and modeling techniques. These skills are crucial for effective execution in architectural and engineering projects. The objective is to equip students with the knowledge necessary for proficient design work.

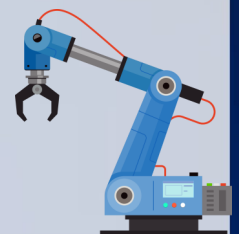


## International conferences attended by Faculty

1. We are excited to share that Dr. Indraj Singh and Dr. J.S. Gill successfully attended the 8th International Conference on Smart Material Research (ICSMR 2024) in Singapore, held from June 14-16, 2024. This prestigious conference, sponsored by the South Asia Institute of Science and Engineering, provided an excellent platform for knowledge exchange and collaboration in the field of smart material research. Their participation and contribution to this prestigious international conference reflect the department's ongoing commitment to academic excellence and global collaboration.



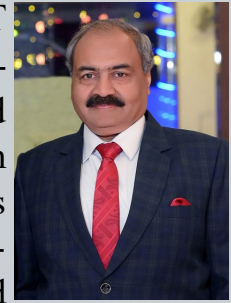
2. We are proud to share that Dr. Anuj Bansal and Dr. Jonny Singla successfully attended the 10th International Conference on Tribology in Manufacturing Processes & Advanced Surface Engineering in Alcoy, Spain, held from June 26-28, 2024. This esteemed conference, organized by the Universitat Politècnica de València, showcased cutting-edge research and developments in tribology and surface engineering. Their participation and contribution to this prestigious international conference reflect the department's ongoing commitment to academic excellence and global collaboration.





## Faculty Achievements

1. **Prof. Shankar Singh** of Mechanical Engineering department, SLIET (presently *Head of the Department Mechanical Engineering*), Longowal has been granted a patent for an invention entitled "REGENERATIVE ELECTROMAGNETIC SHOCK ABSORBER" on 28-02-2024, for the term of 20 years, in accordance with the provisions of the Patents Act, 1970. This Patent Number 516990 is Full Utility Patent. The patent **Application No. 4077/MUM/2015** was granted and recorded in the Register of Patents on 28/02/2024, by the Patent Office, Government of India. This high-efficiency energy regenerative electromagnetic shock absorber has been designed using electromagnets that is applied to extend the battery endurance of an Electric Vehicle.



Prof. Shankar Singh and the team of inventors are congratulated for their remarkable achievement. *This patent not only reflects their dedication and expertise but also contributes significantly to the field of Mechanical & Automobile Engineering.*





# ਸਲਾਇਟ ਦੇ ਪ੍ਰੋਫੈਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਦੀ ਖੋਜ ਨੂੰ ਭਾਰਤ ਸਰਕਾਰ ਵਲੋਂ ਪੇਟੈਂਟ ਮਿਲਿਆ

ਲੋਂਗੋਵਾਲ, 3 ਮਾਰਚ (ਵਰਿਸਟ, ਵਿਜੇ) - ਸੰਤ ਲੋਂਗੋਵਾਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ (ਸਲਾਇਟ ਡੀਮਡ ਯੂਨੀਵਰਸਿਟੀ) ਵਿਖੇ ਮਕੈਨੀਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਦੇ ਪ੍ਰੋਫੈਸਰ ਡਾਕਟਰ ਸ਼ੰਕਰ ਸਿੰਘ ਨੂੰ ਭਾਰਤ ਸਰਕਾਰ ਦੇ ਪੇਟੈਂਟ ਦਫਤਰ ਦੁਆਰਾ 'ਰੀਜਨਰੇਟਿਵ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ' ਨਾਂ ਦੀ ਇਕ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਹੈ। ਇਹ ਪੇਟੈਂਟ ਐਕਟ 1970 ਦੇ ਉਪਬੰਧਾਂ ਅਨੁਸਾਰ 20 ਸਾਲ ਦੀ ਮਿਆਦ ਲਈ ਦਿੱਤਾ ਗਿਆ ਹੈ।



ਇਹ ਪੇਟੈਂਟ ਇਲੈਕਟ੍ਰਿਕ ਵਾਹਨ ਦੀ ਬੈਟਰੀ ਸਹਿਣਸ਼ੀਲਤਾ ਅਤੇ ਕਾਰਜ ਸਮਰਥਾ ਨੂੰ ਵਧਾਉਣ ਲਈ ਉੱਚ-ਕੁਸ਼ਲਤਾ ਖੋਜ ਉਰਜਾ ਪੁਨਰਜਨਮ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟ ਦੀ ਵਰਤੋਂ ਲਈ ਪ੍ਰਦਾਨ ਕੀਤਾ ਗਿਆ ਹੈ। ਡਾ. ਸਿੰਘ ਨੇ ਦੱਸਿਆ ਕਿ ਇਸ ਖੋਜ ਕਾਰਜ ਟੀਮ ਵਿਚ ਉਨ੍ਹਾਂ ਦੇ ਅਧੀਨ ਸਲਾਈਟ ਦੇ ਪੀ.ਐੱਚ.ਡੀ. ਸਕਾਲਰ (ਮਕੈਨੀਕਲ), ਡਾ. ਨਿਤਿਨ ਵਿਜੇ ਸਤਪੁਤੇ, ਡਾ. ਲਲਿਤ ਕੁਮਾਰ ਮਾਈਕੁਲਾਲ ਜੁਗੁਲਕਰ ਤੋਂ ਇਲਾਵਾ ਪ੍ਰੋਫੈਸਰ

ਸੁਰੇਸ਼ ਮਾਰੂਤੀ ਸਾਵੰਤ ਸ਼ਿਵਾਜੀ ਯੂਨੀਵਰਸਿਟੀ ਕੋਹਲਾਪੁਰ (ਮਹਾਰਾਸ਼ਟਰ) ਸ਼ਾਮਲ ਸਨ। ਸਲਾਇਟ ਡਾਇਰੈਕਟਰ ਪ੍ਰੋ. ਮਨੀ ਕਾਂਤ ਪਾਸਵਾਨ ਨੇ ਸ਼ੰਕਰ ਸਿੰਘ ਅਤੇ ਖੋਜਕਾਰਾਂ ਦੀ ਟੀਮ ਨੂੰ ਉਨ੍ਹਾਂ ਦੀ ਸ਼ਾਨਦਾਰ ਪ੍ਰਾਪਤੀ ਲਈ ਵਧਾਈ ਦਿੰਦਿਆਂ ਕਿਹਾ ਕਿ ਇਹ ਪੇਟੈਂਟ ਨਾ ਸਿਰਫ਼ ਡਾ. ਸਿੰਘ ਦੇ ਸਮਰਥਣ ਅਤੇ ਮੁਹਾਰਤ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੈ ਸਗੋਂ ਮਕੈਨੀਕਲ ਅਤੇ ਆਟੋਮੋਬਾਈਲ ਇੰਜੀਨੀਅਰਿੰਗ ਦੇ ਖੇਤਰ ਵਿਚ ਵੀ ਮਹੱਤਵਪੂਰਨ ਯੋਗਦਾਨ ਪਾਉਂਦਾ ਹੈ। ਭਾਰਤ ਸਰਕਾਰ ਦੇ ਇਸ ਐਲਾਨ ਤੋਂ ਬਾਅਦ ਸਲਾਇਟ ਫੈਕਲਟੀ ਅਤੇ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਭਾਰੀ ਖੁਸ਼ੀ ਦਾ ਮਾਹੌਲ ਹੋ।

ਸੰਵਾਦ ਸੂਰ, ਲੋਂਗੋਵਾਲ (ਸੰਗਰੂਰ) : ਸੰਤ ਲੋਂਗੋਵਾਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ (ਸਲਾਇਟ ਡੀਮਡ ਯੂਨੀਵਰਸਿਟੀ) ਵਿਖੇ ਮਕੈਨੀਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਦੇ ਪ੍ਰੋਫੈਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਨੂੰ ਭਾਰਤ ਸਰਕਾਰ ਦੁਆਰਾ 'ਰੀਜਨਰੇਟਿਵ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ' ਨਾਂ ਦੀ ਇਕ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਹੈ। ਇਸ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ।

ਦਿਨਿਕ ਜਾਗਰਨ 07/03/2024

## ਪ੍ਰੋਫੇਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਦੀ ਆਵਿਧਕਾਰ ਕੇ ਲਿਏ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ

ਸੰਵਾਦ ਸੂਰ, ਲੋਂਗੋਵਾਲ (ਸੰਗਰੂਰ) : ਸੰਤ ਲੋਂਗੋਵਾਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨੋਲੋਜੀ (ਸਲਾਇਟ ਡੀਮਡ ਯੂਨੀਵਰਸਿਟੀ) ਵਿਖੇ ਮਕੈਨੀਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ ਦੇ ਪ੍ਰੋਫੇਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਨੂੰ ਭਾਰਤ ਸਰਕਾਰ ਦੁਆਰਾ 'ਰੀਜਨਰੇਟਿਵ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ' ਨਾਂ ਦੀ ਇਕ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ।

ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ ਦੀ ਆਵਿਧਕਾਰ ਕੇ ਲਿਏ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ। ਇਸ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ।



ਪ੍ਰੋਫੇਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਦੀ ਆਵਿਧਕਾਰ ਕੇ ਲਿਏ ਪੇਟੈਂਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਗਿਆ ਹੈ। ਇਸ ਖੋਜ ਲਈ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ।



### Prof. Shankar Singh SLIET granted a patent

Prof. Shankar Singh of SLIET, Longowal, Punjab, has been granted a patent for an invention entitled "REGENERATIVE ELECTROMAGNETIC SHOCK ABSORBER" on 28-02-2024, for the term of 20 years, in accordance with the provisions of the Patents Act, 1970. This Patent Number 516990 is Full Utility Patent. The patent Application No. 4077/MUM/2015, was granted and recorded in the Register of Patents on 28/02/2024, by the Patent Office, Government of India. This high-efficiency energy regenerative electromagnetic shock absorber has been designed using electromagnets that is applied to extend the battery endurance of an Electric Vehicle. The other inventors are Dr. Nishu Vijay Salpute [Ex-PhD Scholar (Mechanical), SLIET], Dr. Lalkumar Maikulal Jugulkar [Ex-PhD Scholar

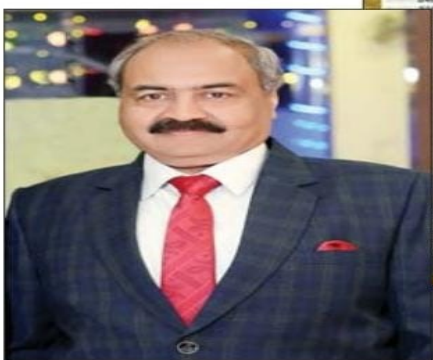


(Mechanical), SLIET) and Prof. Sure Maruti Sawant (Shriwaji University Kolhapur, Maharashtra). Prof. Shankar Singh and the team of inventors congratulate their remarkable achievement. This patent not only reflects their dedication and expertise but also contributes significantly to the field of Mechanical & Automobile Engineering.

# ਪ੍ਰੋਫੈਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਰੀਜਨਰੇਟਿਵ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ ਨਾਮ ਕਾਢ ਲਈ ਪੇਟੈਂਟ ਦਿੱਤਾ ਗਿਆ

## ਦੇਵ ਟਾਈਮਜ਼

ਸੁਨਾਮ ਉਧਮ ਸਿੰਘ ਵਾਲਾ, 1 ਮਾਰਚ (ਵਰਮਾ) ਪ੍ਰੋਫੈਸਰ ਸ਼ੰਕਰ ਸਿੰਘ, ਮਕੈਨੀਕਲ ਇੰਜੀਨੀਅਰਿੰਗ ਵਿਭਾਗ, ਸਲਾਈਟ, ਲੋਂਗੋਵਾਲ ਨੂੰ 28 ਫਰਵਰੀ 2024 ਨੂੰ 20 ਸਾਲਾਂ ਦੀ ਮਿਆਦ ਲਈ ਰੀਜਨਰੇਟਿਵ ਇਲੈਕਟ੍ਰੋ ਮੈਗਨੈਟਿਕ ਸ਼ੌਕ ਐਬਸਰਬਰ ਨਾਮ ਦੀ ਇੱਕ ਕਾਢ ਲਈ ਇੱਕ ਪੇਟੈਂਟ ਦਿੱਤਾ ਗਿਆ ਹੈ। ਇਹ ਪੇਟੈਂਟ ਐਕਟ, 1970 ਦੇ ਉਪਬੰਧਾਂ ਅਨੁਸਾਰ ਹੈ। ਇਹ ਪੇਟੈਂਟ ਨੰਬਰ 516990 ਪੂਰੀ ਉਪਯੋਗਤਾ ਪੇਟੈਂਟ ਹੈ।



ਪੇਟੈਂਟ ਐਪਲੀਕੇਸ਼ਨ ਨੰਬਰ 4077/ਐਮ ਜੂ ਐਮ/2015 ਭਾਰਤ ਸਰਕਾਰ ਦੇ ਪੇਟੈਂਟ ਦਫਤਰ ਦੁਆਰਾ 28 ਫਰਵਰੀ 2024 ਨੂੰ ਪੇਟੈਂਟ ਦੇ ਰਜਿਸਟਰ ਵਿੱਚ ਮਨਜ਼ੂਰ ਅਤੇ ਰਜਿਸਟਰ ਕੀਤਾ ਗਿਆ ਸੀ। ਇਹ ਉੱਚ-ਕੁਸ਼ਲਤਾ ਉਰਜਾ ਪੁਨਰਜਨਮ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟਿਕ ਸਦਮਾ ਸ਼ੌਕ ਇਲੈਕਟ੍ਰੋਮੈਗਨੈਟ ਦੀ ਵਰਤੋਂ ਕਰਕੇ ਤਿਆਰ ਕੀਤਾ ਗਿਆ ਹੈ ਜੋ ਇੱਕ



ਹਨ ਡਾ. ਨਿਤਿਨ ਵਿਜੇ ਸਤਪੁਤੇ ਸਾਬਕਾ ਪੀਐਚਡੀ ਸਕਾਲਰ (ਮਕੈਨੀ ਕਲ), ਐਸ ਐਲ ਆਈਈਟੀ, ਡਾ. ਲਲਿਤ ਕੁਮਾਰ ਮਾਈਕੁਲਾਲ ਜੁਗੁ ਲਕਰ [ਸਾਬਕਾ ਪੀਐਚਡੀ ਸਕਾਲਰ (ਮਕੈਨੀਕਲ), ਐਸਐਲ ਆਈ ਈਟੀ ਅਤੇ ਪ੍ਰੋਫੈਸਰ ਸੁਰੇਸ਼ ਮਾਰੂਤੀ ਸਾਵੰਤ (ਸ਼ਿਵਾਜੀ ਯੂਨੀਵ ਰਸਿਟੀ, ਕੋਲਹਾਪੁਰ, ਮਹਾਰਾਸ਼ਟਰ) ਪ੍ਰੋਫੈਸਰ ਸ਼ੰਕਰ ਸਿੰਘ ਅਤੇ ਖੋਜਕਾਰਾਂ ਦੀ ਟੀਮ ਨੂੰ ਉਨ੍ਹਾਂ ਦੀ ਸ਼ਾਨਦਾਰ ਪ੍ਰਾਪਤੀ ਲਈ ਵਧਾਈ ਦਿੱਤੀ ਗਈ ਹੈ। ਇਹ ਪੇਟੈਂਟ ਨਾ ਸਿਰਫ਼ ਉਸ ਦੇ ਸਮਰਥਣ ਅਤੇ ਮੁਹਾਰਤ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੈ ਸਗੋਂ ਮਕੈਨੀਕਲ ਅਤੇ ਆਟੋਮੋਬਾਈਲ ਇੰਜੀਨੀਅਰਿੰਗ ਦੇ ਖੇਤਰ ਵਿੱਚ ਵੀ ਮਹੱਤਵਪੂਰਨ ਯੋਗਦਾਨ ਪਾਉਂਦਾ ਹੈ।



2. Dr. Rakesh Kumar, Associate Professor, Department of Mechanical Engineering, SLIET Longowal has been granted a UK Design patent for a design entitled “**A compact High Gain Antenna for 3.6-3.8 GHz Band with Thermal Management**” on 02-01-2024.



The other inventors are Dr. Shobhit Saxena, Er. Priyanka Singh, Dr. Archana Sharma, Er. Kavi Bhushan, Er. Gur Sharan Kant, Dr. Monika Gaur, Dr. Arvind Jayant, **Dr. Rakesh Kumar**, Er. Bharat Singh Chittoriya, Er. Vijay Kumar Ram, Er. Rahul Prakash, Manpreet Singh, Neha Prakash.



### Certificate of Registration for a UK Design

Design number: 6346321  
Grant date: 21 February 2024  
Registration date: 12 February 2024

**This is to certify that,**

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Shobhit Saxena, Er. Priyanka Singh, Dr. Archana Sharma, Er. Kavi Bhushan,  
Er. Gur Sharan Kant, Dr. Monika Gaur, Dr. Arvind Jayant, Dr. Rakesh Kumar, Er.  
Bharat Singh Chittoriya, Er. Vijay Kumar Ram, Er. Rahul Prakash, Manpreet  
Singh, Neha Prakash

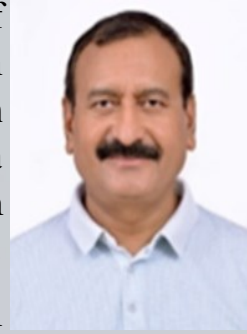
in respect of the application of such design to:

A Compact High Gain Antenna for 3.6-3.8 GHz Band with Thermal Management


International Design Classification:  
Version: 14-2023  
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING  
EQUIPMENT  
Subclass: 03 TELECOMMUNICATIONS EQUIPMENT, WIRELESS REMOTE  
CONTROLS AND RADIO AMPLIFIERS

**Adam Williams**  
Comptroller-General of Patents, Designs and Trade Marks  
Intellectual Property Office  
The attention of the Proprietor(s) is drawn to the important notes overleaf.

3. Dr. Rakesh Kumar, Associate Professor, Department of Mechanical Engineering, SLIET Longowal has been granted a UK Design patent for a design entitled “**High Gain Electromagnetically Coupled Patch Antenna for Point-to-Point wireless communication links.**” on 02-01-2024.



The other inventors are Dr. Shobhit Saxena, Er. Parul Varshney, Er. Priyanka Singh, Dr. Archana Sharma, Dr. Arvind Jayant, **Dr. Rakesh Kumar**, Er. Bharat Singh Chittoriya, Er. Vijay Kumar Ram, Er. Rahul Prakash, Manpreet Singh

**Intellectual  
Property  
Office**

**Certificate of Registration for a UK Design**

Design number: 6333642  
Grant date: 02 January 2024  
Registration date: 17 December 2023

**This is to certify that,**

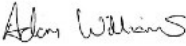
in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of


Dr. Shobhit Saxena, Er. Parul Varshney, Er. Priyanka Singh, Dr. Archana  
Sharma, Dr. Arvind Jayant, Dr. Rakesh Kumar, Er. Bharat Singh Chittoriya, Er.  
Vijay Kumar Ram, Er. Rahul Prakash, Manpreet Singh

in respect of the application of such design to:

High Gain Electromagnetically Coupled Patch Antenna for Point-to-Point  
Wireless Communication Links

International Design Classification:  
Version: 14-2023  
Class: 14 RECORDING, TELECOMMUNICATION OR DATA PROCESSING  
EQUIPMENT  
Subclass: 03 TELECOMMUNICATIONS EQUIPMENT, WIRELESS REMOTE  
CONTROLS AND RADIO AMPLIFIERS

  
**Adam Williams**  
Comptroller-General of Patents, Designs and Trade Marks  
Intellectual Property Office  
The attention of the Proprietor(s) is drawn to the important notes overleaf.






Intellectual Property Office is an operating name of the Patent Office [www.gov.uk/ipo](http://www.gov.uk/ipo)



4. Dr. Mohd Majid, Associate Professor, Department of Mechanical Engineering, SLIET Longowal has been granted a patent for a design entitled “Artificial intelligence based chemical industrial grinder machine.” on 09-04-2024.



The inventors are Dr. Mohd Majid, Dr. Naveen Khatri, Mr. Sushant Sharma, Dr. Ankita Goyal, Dr. Basanta Kumar Bhuyan, Akhil Gupta, Dr. Ritesh Kumar




**ORIGINAL**  
 क्रम सं./ Serial No.: 173653

**पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India**

**डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design**

डिजाइन सं. / Design No.: 413073-001  
 तारीख / Date: 09/04/2024  
 पारस्परिकता तारीख / Reciprocity Date\*:  
 देश / Country:

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **ARTIFICIAL INTELLIGENCE BASED CHEMICAL INDUSTRIAL GRINDER MACHINE** से संबंधित है, का पंजीकरण, श्रेणी 15-09 में 1.Dr. Mohd Majid 2. Dr. Naveen Khatri 3.Mr. Sushant Sharma 4.Dr. Ankita Goyal 5.Dr. Basanta Kumar Bhuyan 6.Akhil Gupta 7.Dr. Ritesh Kumar के नाम में उपयुक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-09 in respect of the application of such design to **ARTIFICIAL INTELLIGENCE BASED CHEMICAL INDUSTRIAL GRINDER MACHINE** in the name of 1.Dr. Mohd Majid 2. Dr. Naveen Khatri 3.Mr. Sushant Sharma 4.Dr. Ankita Goyal 5.Dr. Basanta Kumar Bhuyan 6.Akhil Gupta 7.Dr. Ritesh Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अन्वये प्रवधानों के अनुसरण में।  
 In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि: 28/06/2024  
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## STUDENT CORNER

### THAR'24, RAJASTHAN TECHNICAL UNIVERSITY

A team of talented students from Sant Longowal Institute of Engineering and Technology (SLIET) showcased their exceptional skills and teamwork, emerging as champions at Rajasthan Technical University's prestigious "Thar" event. The team's outstanding performance in the "**Strength-O-Mania**" competition earned them the top spot and a prize money of ₹8,000.

The winning team consisted of:

- Saksham Gupta (GME/2236082)
- Vaibhav Anand (GME/2236088)
- Aarav Aryan (GME/2236077)
- Ashish Ranjan (GCS/2231060)
- Harsh Kumar (GCS/2431022)



Their remarkable achievement demonstrates the team's dedication, hard work, and commitment to excellence. This victory brings pride to SLIET and motivates future generations of students to strive for similar success.

### THAR'24, RAJASTHAN TECHNICAL UNIVERSITY

A group of skilled students from Sant Longowal Institute of Engineering and Technology (SLIET) demonstrated exceptional prowess and collaboration, securing the 2nd position at Rajasthan Technical University's esteemed "Thar" event. Their impressive showing in the "**Hoverboat**" contest earned them a prize money of ₹5,000.

The triumphant team comprised:

- Saksham Gupta (GME/2236082)
- Vaibhav Anand (GME/2236088)
- Aarav Aryan (GME/2236077)
- Ashish Ranjan (GCS/2231060)
- Harsh Kumar (GCS/2431022)



This outstanding achievement showcases the team's tireless efforts, unwavering commitment, and passion for excellence. It serves as a source of inspiration for future generations of students to strive for similar accomplishments.





## RC CAR, ROBO-SOCCER, AND PRESENTATIONS, IIT ROORKEE

Our talented team from SLIET recently had the opportunity to showcase their exceptional skills and enthusiasm at a prestigious event held at IIT Roorkee. This competition included a diverse range of challenges that tested their abilities in various fields, such as RC Car racing, Robo-Soccer, and presentations in both Electrical and Mechanical categories. Each challenge allowed our students to demonstrate their technical prowess and innovative thinking, reflecting the rigorous training and education they have received at SLIET.

Throughout the event, the team exhibited remarkable dedication and teamwork, working collaboratively to overcome obstacles and excel in each task. Their technical expertise was evident as they navigated complex challenges, and their ability to think critically and creatively was particularly impressive. This experience not only provided them with valuable exposure to cutting-edge technologies but also allowed them to interact with industry experts and peers from other institutions, broadening their horizons and enhancing their understanding of current trends in engineering and technology.

The outstanding performance of our team at this event is a testament to SLIET's commitment to fostering talent and academic excellence. It reflects the hard work and preparation that our students invest in their education, as well as the support and guidance provided by our faculty.

We're incredibly proud of their achievement and the spirit they showed, making SLIET proud! Their participation and success serve as an inspiration to future students, and we congratulate them on their well-deserved accomplishment



## Inter Department Cricket Tournament

The Inter Departmental Cricket Tournament was a resounding success, bringing together the best of BH-02 and BH-05's cricketing talent! The excitement was palpable as teams clashed in a battle of skill, strategy, and sportsmanship.

Organized by: Sports Committee of BH-05

Dates: March 15-17, 2024 (kicking off at 4:30 PM on Friday)

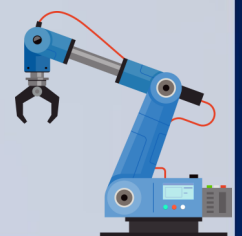
Location: Cricket Stadium, SLIET

Eligibility: Students of BH-02 and BH-05

Tournament Rules:

1. Teams were formed from each department.
2. Matches consisted of 8 overs per side (4 overs medium throw like spin + 4 overs swing bowling).
3. A bowler could bowl a maximum of 2 overs.
4. Students played for their respective departments.
5. Once a player was registered with a team, they couldn't play for another team.
6. Only students of BH-02 and BH-05 participated (local 1st and 2nd-year diploma students also played).
7. All players reported to the venue 15 minutes before the game started.
8. Failure to report on time resulted in the opposing team being awarded the win.
9. Games were postponed in case of rain.
10. Umpire decisions were final and binding.

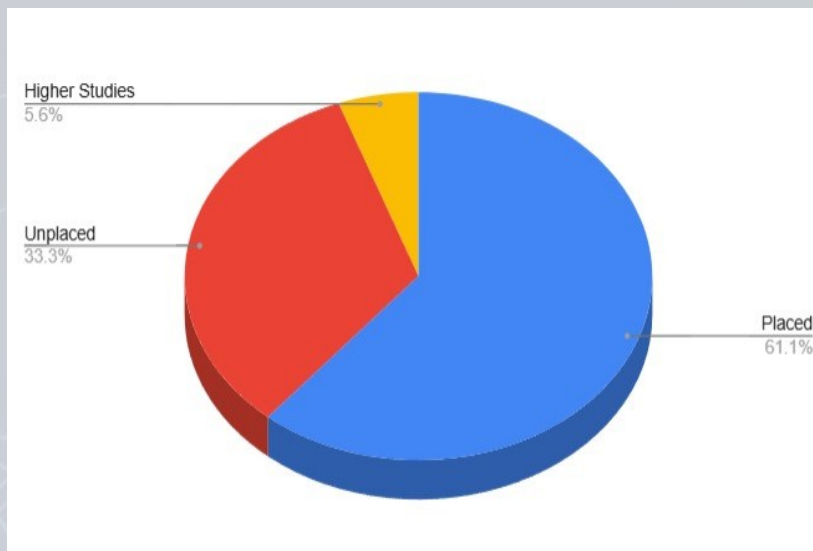
The 2022 batch from the Mechanical Department won the tournament!





## Mechanical Engineering Placement Highlights

We are pleased to share the placement statistics for our Mechanical Engineering students from the 2020-2024 batch. The data showcases the impressive achievements of our graduates, who have demonstrated exceptional skills and adaptability in a rapidly evolving industry landscape.

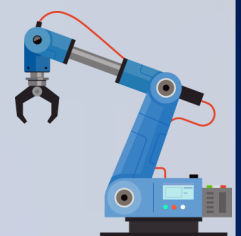


### Key Highlights:

- **61.1% Placement Rate:** A significant majority of our students have secured lucrative job offers from renowned organizations, reflecting their exceptional technical expertise and industry readiness.
- **5.6% Higher Studies:** A notable proportion of our graduates have chosen to pursue further education, opting for prestigious master's programs or research opportunities, demonstrating their thirst for knowledge and academic excellence.
- **33.3% Unplaced:** While a smaller percentage of students remain unplaced, we are committed to providing ongoing support and resources to ensure they achieve their career goals.

### Insights and Future Outlook

The placement data underscores the strong industry connections and academic rigor of our Mechanical Engineering program. As we continue to evolve and refine our curriculum, we are confident that future batches will achieve even greater success. Our focus remains on fostering a holistic learning environment, empowering students to thrive in an ever-changing world.



## Alumni Corner

- *HARBIR SINGH - ( Business Head & Vice President- Isgec Titan Metal Fabricators (Indo- American Joint Venture Company) :*

As an alumnus with 26 years of experience in the mechanical heavy engineering industry, I can confidently say that the future of mechanical engineering is incredibly promising. With rapid advancements in technology, the industry is evolving at an unprecedented pace. From the development of sustainable energy solutions to the creation of cutting-edge robotics and automation systems, mechanical engineers are at the forefront of innovation. The skills and knowledge you are acquiring today will empower you to tackle some of the world's most pressing challenges. Embrace every opportunity to learn and grow, for you are the pioneers of tomorrow's engineering marvels. Your journey in mechanical engineering is not just a career path but a chance to make a significant impact on the world. Stay curious, stay passionate, and never stop pushing the boundaries of what's possible.

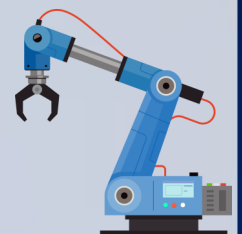


- *VINEY MEHTA - ( General Manager, Godrej & Boyce Mfg. co. Ltd , Mumbai):*

Looking back, my time at SLIET was filled with challenges and learning opportunities that greatly impacted my professional journey. The rigorous curriculum, combined with the support of dedicated professors and the strong sense of community among students, provided me with a solid foundation in both technical and personal development. I am thrilled to see the department continue to thrive, inspiring the next generation of engineers to excel in a rapidly changing world.

To the students currently pursuing their education at SLIET, I would like to share a few lessons from my journey that might help you prepare for the future:

1. Commit to Continuous Learning: The engineering field evolves rapidly, with new technologies and practices emerging regularly. Stay curious and proactive about learning, whether through formal education, online courses, or self-study. This commitment to learning will help you stay ahead in your career.





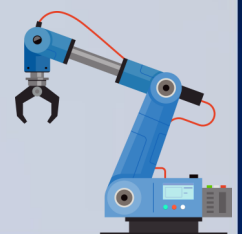
2. **Balance Technical Expertise with Soft Skills:** While mastering technical skills is essential, do not underestimate the value of soft skills such as communication, teamwork, and leadership. These skills are critical in the workplace and can significantly impact your career growth. Try to develop them alongside your technical knowledge.

3. **Prepare for the Corporate Environment:** Moving from academic life to the corporate world can be a significant adjustment. Understanding the expectations in a professional setting-like punctuality, effective communication, and adaptability-is crucial. Internships, industry projects, and networking events are excellent ways to gain practical experience and insights into the corporate world.

4. **Innovate with Sustainability in Mind:** As mechanical engineers, we have a role to play in building a sustainable future. Think creatively about how your work can contribute to sustainability and innovation. This mindset will not only set you apart but also make your work more meaningful.

5. **Cultivate Resilience and Determination:** The road to success is rarely straightforward. You will face challenges, but resilience and a positive attitude will help you overcome them. Learn from your setbacks, adapt quickly, and keep moving forward with confidence.

I hope these insights will help you navigate both your academic journey and your future career. Your time at SLIET is just the start-embrace it fully, and I have no doubt you will achieve great things.



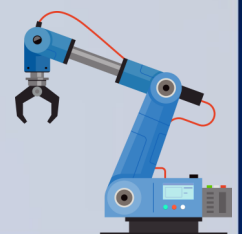
- *SATYAM KUMAR ( ASST. Manager- Mahindra & Mahindra Ltd SWARAJ Division):*

As a mechanical engineering student at SLIET, I've had an incredibly enriching and transformative experience throughout my college life. The opportunities for learning and growth have been immense, both in theoretical knowledge and practical applications.

The college offers outstanding facilities that greatly support our academic and personal development. From the extensive resources available in the Library, Digital Library, and Departmental Libraries, to the invaluable guidance from professors, every aspect of our educational journey has been catered to with exceptional care. Our professors in the Mechanical Engineering Department have gone above and beyond, dedicating their time and expertise to ensure we gain a thorough understanding of our subjects and offering insightful guidance for our future careers.

Moreover, SLIET provides a plethora of extracurricular opportunities through various committees, clubs, and societies. Engaging with these organizations has been crucial for my personal growth. As an introvert initially, I found that participating in activities like the S.A.D.S. (SLIET Art & Designing Society) and NCC (National Cadet Corps) helped me evolve into a more confident and extroverted individual. These experiences have been instrumental in developing my skills and broadening my horizons.

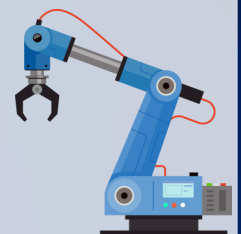
Reflecting on my time here, I feel a deep sense of pride and gratitude for the opportunities and support I have received. The journey from being an introvert to an extrovert, coupled with the comprehensive educational and extracurricular experiences, has made this period of my life truly golden. I am proud to be a SLIETian and grateful for all the growth and learning I've achieved here.



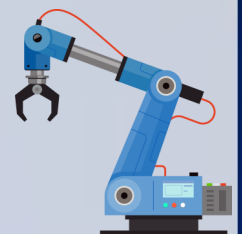


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1. **Om H, Singh S.** Experimental Study on Electro-Discharge Drilling of NiTiCu10 Shape Memory Alloy. *Journal of Molecular and Engineering Materials*. 2024 May 28:2440014.
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4. **Kumar R, Kumar P, Vashishtha G, Chauhan S, Zimroz R, Kumar S, Kumar R, Gupta MK, Ross NS.** Fault Identification of Direct-Shift Gearbox Using Variational Mode Decomposition and Convolutional Neural Network. *Machines*. 2024 Jun 24;12(7):428.
5. **Kumar V, Guleria V, Kumar S.** A Novel Hybrid RSM-ANN Model for Surface Roughness Prediction in Turning of Al 6061 Alloy. *Journal of Advanced Manufacturing Systems*. 2024 May 10.
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7. **Jaiswal D, Kumar S.** Effect of Tool pin profile on Mechanical and microstructural properties of cooling assisted Friction stir welding of AA6063-T6 weld joint Materials at High Temperatures. *Materials at High Temperatures*. 0960-3409: 2024
8. **Verma Y, Kumar S.** Investigation of Partially Submerged Rectangular Plate Modeshapes Through Eigenvectors in a Fluid Domain. *Journal of Vibration Engineering & Technologies*. 2024 Jun 22:1-8.
9. **Yadav S, Kumar S, Goyal M.** Trajectory control and optimization of PID controller parameters for dual-arms with a single-link underwater robot manipulator. *Journal of the Chinese Institute of Engineers*. 2024 Aug 8:1-1.
10. **Khan H, Gill JS, Bansal A, Singh V.** Slurry Abrasion and Dry Sliding Behaviour of High-Velocity Oxy-Fuel (HVOF) Sprayed WC-12Co and WC-10Co-4Cr Coatings on EN8 Tillage Material. *Journal of Thermal Spray Technology*. 2024 May 20:1-8.
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12. **Chittoriya BS, Jayant A, Kumar R.** Effect of Multipass FSP and (SiC+ TiB<sub>2</sub>) Nanoparticles on the Mechanical and Metallurgical Characteristic of the Hybrid Metal Matrix Composite. *Silicon*. 2023 Dec;15(18):7927-41.
13. **Chittoriya BS, Jayant A, Kumar R.** Multi-response optimization of input and output responses of multipass FSP of AA7050 with (SiC+ TiB<sub>2</sub>) nanoparticles by response surface methodology. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 2024 Jan 31:09544089231221068.
14. **Yadav S, Kumar S, Goyal M.** Integration and Optimization of Software to Control Robotic Arms: A Comprehensive Study on Modeling, Hardware Implementation, and PID Tuning. *International Journal of Intelligent Systems and Applications in Engineering*. 2147-6799: 2024
15. **Gill JS, Singh A, Singh OV.** Effect of alloying elements on weld characterization and wear resistance of hardfacing of structural steel with Iron-based electrodes by the SMAW. *The 12th Asia Conference on Mechanical and Materials Engineering & 2024 the 7th International Conference on Frontiers of Composite Materials. ICSMR, 2024, Singapore June 14-16, 2024.*







## **DEPARTMENT OF MECHANICAL ENGINEERING**

# **MECH-TIMES**

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