



Department of **MECHANICAL ENGINEERING**



Innovate. Design. Build.

Newsletter Biannual Bulletin

UPDATES AND INNOVATIONS IN ENGINEERING

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Editor

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About the Department

The Department of Mechanical Engineering started its academic activities in the year 2003 with an objective of incorporating excellence in teaching-learning, research and development, entrepreneurship and industry outreach activities. Presently, the department offers B. Tech. (Mechanical Engineering), M. Tech. (Renewable Energy Technology) and PhD programmes. The department has modern laboratories developed and designed from the perspective of the latest requirements of industry and academia. The B.Tech. programme was accredited in 2009 and subsequently re-accredited by NBA.



Vision

To become a nationally visible mechanical engineering department with excellence in teaching- learning, research and development, entrepreneurship and industry outreach activities.

Mission

M1 - To provide facilities and environment conducive to high quality education and research and development in the field of mechanical engineering.

M2 - To inculcate technical, professional and communication skills in students, staff and faculty members.

M3 - To instil innovative skills, critical thinking, leadership & team work in students through various teaching-learning activities and industry linkages.

M4 - To inculcate strong ethical qualities in the students and faculty for realizing lifelong learning and serving the society and nation at large.



From the Editor's Desk

It is a pleasure to present Volume 5, Issue 1 of the Mechanical Engineering Department Newsletter. This edition highlights key academic, industrial, and co-curricular activities, along with notable achievements of our faculty and students. The newsletter reflects our continued efforts to strengthen industry linkage, experiential learning, and professional growth. I extend my sincere appreciation to all contributors for their valuable support and cooperation.



Ms. Namita Soni
(Chief Editor)

From the HOD's Desk

"The Mechanical Engineering Department continues to progress through a strong emphasis on quality education, research excellence, industry collaboration, and holistic student development. This newsletter presents a concise record of our achievements and activities, reflecting our commitment to continuous improvement and professional excellence. I appreciate the contributions of the faculty, students, and editorial team in upholding the department's academic standards.



Dr. Dheeraj Joshi
(Professor and Head)

DEPARTMENTAL ACTIVITIES



“Industrial Visit” on 28th July, 2025

The industrial visit to Techno Engineering Industries, Road No. 6, VKIA, Jaipur, was conducted on 28th July 2025 by the Department of Mechanical Engineering, SKIT Jaipur, under the coordination of Mr. Vinay Singh Marwal (Associate Professor) and Mr. Vishnu Jangid (Assistant Professor), with 35 students participating. The visit aimed to bridge the gap between theoretical knowledge and practical manufacturing by exposing students to casting, forging, and bearing production processes. Students explored the Casting Plant showcasing green sand casting of grey cast iron automotive components, the Forging Unit demonstrating press forging operations in open and closed die setups, and the Bearing Manufacturing Unit highlighting machining, heat treatment, and inspection of bearing components for clients such as NRB, SKH, and NBC. The visit also provided insights into material selection, metallurgical changes, quality control tests, industrial safety, environmental practices, and manufacturing defects, thereby enhancing students' practical understanding of metal industry processes and quality assurance.



“Industrial Visit” on 17th Sept, 2025

The Department of Mechanical Engineering, SKIT Jaipur, conducted an industrial visit to WeVOIS Labs Pvt. Ltd., near the Solid Waste Plant, Muhana, Jaipur, on 17th September 2025 under the guidance of Dr. Ashish Nayyar (Professor) and Mr. Amit Bansal (Associate Professor), with 19 students participating. Established in 2018, WeVOIS Labs is a Jaipur-based company providing technology-driven solid waste management solutions and operates in over 25 cities across India, serving more than 4.2 million citizens and processing over 600,000 tonnes of waste annually. During the visit, students learned about the company's decentralized Material Recovery Facilities (MRFs) integrated with the Jaipur Municipal Corporation's MSW plant at Muhana, which handles about 1,500 tonnes per day, and its focus on IoT-enabled waste collection, real-time tracking, source segregation, and circular economy initiatives. The visit enhanced students' understanding of IoT and AI applications in waste management, sustainability metrics, public-private partnerships, and the socio-environmental benefits of modern sanitation systems, effectively bridging academic concepts with real-world practices.

DEPARTMENTAL ACTIVITIES



Expert Talk on “Making Engineering Graduates Industry Ready and Consultancy Opportunity in Industry” 2nd September, 2025.



Expert Talk on “Business Perspective: Emerging opportunities in recycling, waste-to-energy, circular economy, and green entrepreneurship” 22nd September, 2025.

The Department of Mechanical Engineering organized an expert lecture on “Making Engineering Graduates Industry Ready and Consultancy Opportunity in Industry” on 2nd September 2025. The session was attended by the Head of the Department, faculty members, and students, and was delivered by Mr. Amit Agarwal, General Manager, Dhabriya Polywood Ltd., Glazing Division, Jaipur. With over 23 years of experience in the construction materials sector across India and the Middle East, Mr. Agarwal was warmly welcomed and felicitated with a memento in recognition of his professional contributions.

In his address, Mr. Agarwal highlighted the importance of clear career goals, continuous upskilling in emerging technologies, digital tools, and AI applications. He encouraged students to embrace challenges, maintain discipline, innovate responsibly, and uphold professional ethics to bridge the gap between academia and industry. He also discussed consultancy opportunities in industry, emphasizing how engineers can apply their expertise to solve real-world problems and build professional credibility.

The lecture concluded with a vote of thanks, acknowledging the speaker and the active participation of faculty and students. A total of 76 students, including those from V and VII semesters, benefited from the informative and motivating session.

On September 22, 2025, the Department of Mechanical Engineering, SKIT Jaipur organized an insightful expert talk on solid waste management and the circular economy, featuring Mr. Sunil Choudhary, Vice President of WeVOIS Labs Pvt Ltd. The company, dedicated to eco-friendly waste management solutions, aims to create a greener and cleaner tomorrow through innovative practices.

Mr. Choudhary highlighted WeVOIS's vision of a circular economy, emphasizing their IoT-based, automated door-to-door waste collection system designed to enhance efficiency and promote cleaner communities. He shared how their dedicated team works tirelessly to ensure timely waste collection, allowing residents to enjoy a sustainable environment. The session was graced by the presence of Prof. Dheeraj Joshi, Head of the Department of Mechanical Engineering, Prof. Ashish Nayyar, Dr. Achin Srivastav, Dr. Manoj Sain, Dr. Ankit Agarwal, faculty members, and students of the department. Dr. Deepak Kumar, organised this session.

A total of 113 students of Mechanical Engg. stream benefited from the session, including 24 students from the III semester, 51 students from V semester and 38 students from the VII semester.

DEPARTMENTAL ACTIVITIES



“Two-Day Workshop on Autodesk Fusion 360” 30th and 31st Oct, 2025.

The Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, in association with the ASME Student Section SKIT, organized a two-day workshop on Autodesk Fusion 360 on 30th and 31st October 2025 at the department's CAD Lab. Conducted in collaboration with Autodesk and Raza Engineering Solutions, the workshop was designed to bridge the gap between academic curriculum and industry expectations by offering hands-on training on an advanced CAD/CAM/CAE platform used extensively in modern engineering design.

The inaugural session was graced by Dr. R. K. Jain, Dean, SKIT; Dr. Dheeraj Joshi, Head, Department of Mechanical Engineering; and Dr. Neelam Choudhary, Chief Coordinator, Professional Chapter, who highlighted the importance of mastering digital tools and encouraged students to actively utilize such skill-development opportunities. The event was conducted under the guidance of Mr. Arun Beniwal, Advisor, ASME Student Section, with faculty coordination by Dr. Manoj Kumar Sain and Mr. Sanjay Bairwa, along with active support from student coordinators. A total of 68 students and faculty members participated in the workshop.

The technical sessions were led by Mr. Rupinder Singh and Mr. Rhythm Sharma from Raza Engineering Solutions, who provided detailed training on 3D modeling, assembly design, and preparation of design documentation using the cloud-based Fusion platform. The hands-on sessions enabled participants to understand integrated, data-driven workflows essential for product development and manufacturing processes.

The workshop concluded on a highly successful note, providing participants with valuable exposure to industry-relevant design tools and practices. By effectively integrating theoretical knowledge with practical application, the initiative reinforced SKIT's commitment to developing industry-ready mechanical engineers and enhancing students' competencies for academic projects and future professional careers.

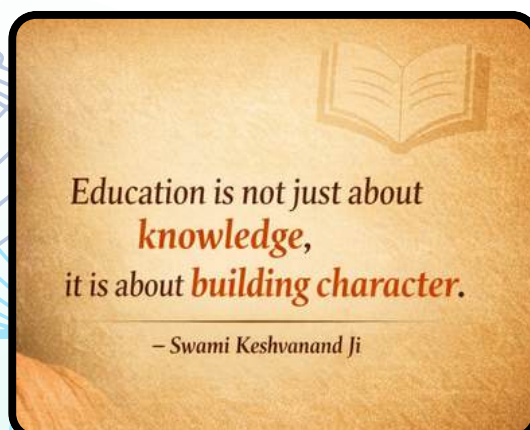
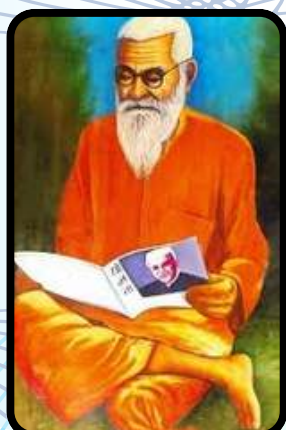
DEPARTMENTAL ACTIVITIES



“Felicitation Program for ASME India Awards” 30th Oct, 2025.

A special felicitation ceremony was held on October 30, 2025, at the Meghnadh Saha Seminar Hall to honor the remarkable achievements of the ASME Student Section and its faculty advisor. The event celebrated two prestigious awards received from ASME India under its Student Section Recognition Program, marking a significant milestone for our institute. The honorees were felicitated by Dr. R. K. Jain, Dean of SKIT; Dr. Dheeraj Joshi, Head of the Mechanical Engineering Department; Dr. Neelam Choudhary, Chief Coordinator of the Professional Chapter and Dr. Manoj Kumar Sain, Faculty Coordinator, ASME Student section SKIT.

Mr. Arun Beniwal of the Mechanical Engineering Department was honored with the ASME Faculty All Star Supporter Award for his dedicated mentorship, receiving a certificate, e-badge, recognition letter, and a complementary one-year ASME membership. Furthermore, the ASME Student Section itself was lauded with the Outstanding Community Engagement Award, recognizing its impactful initiatives, and was presented with a certificate, e-badge, ASME goodies, and a cash prize of ₹5,000. These accolades are a testament to the collective spirit, active efforts of the student section, and the unwavering support of the SKIT management.



FACULTY PUBLICATIONS

PAPERS PUBLISHED IN JOURNAL

AUTHOR/S	TITLE	JOURNAL
Dharmendra Hariyani	A literature review on enablers for the adoption of integrated sustainable green lean six sigma agile manufacturing system (ISGLSAMS).	Next Research, Vol. 2; Issue 4; (2025) pp. 100814
Dharmendra Hariyani	The role of leadership in sustainable digital transformation of the organization.	Sustainable Futures, Vol. 10; (2025) pp. 101130.
Deepak Kumar, Achin Srivastav, Manoj Kumar Sain, Vikash Gautam	Comparative Analysis of Non-Linear Regression and Artificial Neural Network for Shrinkage Prediction of HDPE in Injection Molding.	SKIT Research Journal, Vol. 15; Issue 1; (2025) pp. 77-81.
Vikash Gautam, Monika Khurana, Deepak Kumar, Manoj Kumar Sain.	Effect of fiber layer alteration on mechanical properties of polymer composites synthesis through VARTM process.	SKIT Research Journal, Vol. 15; Issue 1; (2025) pp. 82-85.
Prem Singh, Sudesh Garg, Chandra Mohan Kumar, Achin Srivastav	Optimization of Pressure Vessel using Teaching Learning Based Optimization (TLBO).	SKIT Research Journal, Vol. 15; Issue 1; (2025) pp. 86-89.
Achin Srivastav, Deepak Kumar, Prem Singh, Chandan Kumar, Nidhi Srivastav	Role of Forecasting in Calamities.	SKIT Research Journal, Vol. 15; Issue 1; (2025) pp. 90-93.
Deepak Kumar, Achin Srivastav, Manoj Kumar Sain , Vikash Gautam	Comparative Analysis of Non-Linear Regression and Artificial Neural Network for Shrinkage Prediction of HDPE in Injection Molding	SKIT Research Journal, Vol. 15; Issue 1; (2025).

FACULTY ACHIEVEMENTS

BOOKS PUBLISHED

AUTHOR/S	BOOK	PUBLISHER
Dr. Amit Jhalani	Energy Science and Engineering	AICTE, New Delhi, 2025

EXPERT TALK DELIVERED

DELIVERED BY	TITLE	DATE & VENUE
Dr. Amit Jhalani	Human Values and Professional Ethics in Higher Education	17 September 2025 at Government Engineering College, Jaipur.

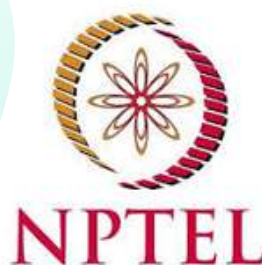
EXPERT TALK RESOURCE PERSON

RESOURCE PERSON	THEME	DATE & VENUE
Mr. Amit Bansal	Agriculture and IKS-Metallurgy	17 & 18 December 2025 in 06 Days Capacity-Building Programme on Integration of Indian Knowledge Systems (IKS) in Curriculum organized by UGC-MMTTC Central University of Rajasthan in association with UGC, New Delhi and IKS Division, MoE, GoI from December 15-20, 2025.



FACULTY ACHIEVEMENTS

NAME OF FACULTY	ACHIEVEMENT
Dr. Achin Srivastav	NPTEL Topper 5% (July Dec 2025) (Product and Brand Management)
Arun Beniwal	NPTEL Elite + Silver Topper 2% (July Dec 2025) Basic Environmental Engineering and Pollution Abatement
Brij Mohan Sharma	NPTEL Discipline Star (July Dec 2025) and NPTEL Domain Scholar
Brij Mohan Sharma	"NPTEL Star" - NPTEL Domain Scholar (July Dec 2025) (Energy and Environment)
Arun Beniwal	NPTEL Top Performing Mentor (Sustainable Energy Technology)
Vishnu Jangid	NPTEL Discipline Star (July Dec 2025)
Dr. Manoj Kumar Sain	Outstanding engineering services to society award and Committe Member, IEI by the Institution of Engineers (IEI) India.
Arun Beniwal	ASME Faculty All Star Supporter Award and ASME Outstanding Community Engagement Award by ASME India.
Dr. Dharmendra Hariyani	NPTEL Discipline Star (July Dec 2025) and NPTEL Domain Scholar



FACULTY PARTICIPATIONS

FDP ATTENDED

TITLE: 3D Printing and design.

DATE: 4 to 16 Aug 2025.

ATTENDED BY: Prem Singh

ORGANIZED BY: SkillDzire in collaboration with AICTE.

TITLE: Agricultural Waste Valorizations.

DATE: 15 to 20 Sept 2025.

ATTENDED BY: Prem Singh

ORGANIZED BY: Rathinam Technical Campus, Coimbatore.

TITLE: Applications of R, Python & Bibliometric Tools in Research with Systematic Literature Review.

DATE: 27 Oct to 1 Nov 2025.

ATTENDED BY: Brij Mohan Sharma, Vinay Singh Marwal

ORGANIZED BY: MCC Boyd Tandon School of Business, Chennai, Tamil Nadu.

TITLE: Developing Future-Ready Educators for the NEP 2020 Vision.

DATE: 06 to 11 Oct 2025.

ATTENDED BY: Sumita

ORGANIZED BY: Vet Institute of Arts and Science Co Education College.

TITLE: Business Analytics.

DATE: 04 to 16 Aug 2025.

ATTENDED BY: Achin Srivastav

ORGANIZED BY: SkillDzire in collaboration with AICTE.

TITLE: Hydrogen 3600: Unlocking the Potential of Sustainable Power.

DATE: 17 to 22 Nov, 2025.

ATTENDED BY: Sumita

ORGANIZED BY: AICTE Training and Learning (ATAL) Academy

TITLE: FDP on Research and Publication Ethics

DATE: 14 to 19 Nov, 2025

ATTENDED BY: Achin Srivastav, Ankit Kumar Agarwal, Sudesh Garg, Trivendra Kumar Sharma, Chandan Kumar, Deepak Kumar, Arun Beniwal, Vinay Singh Marwal, Prem Singh

ORGANIZED BY: Research & Development Cell, SKIT Jaipur.

TITLE: Sustainable Development through Renewable Energy Integration.

DATE: 24 Nov to 29 Nov, 2025.

ATTENDED BY: Ankit Kumar Agarwal

ORGANIZED BY: AICTE Training and Learning (ATAL) Academy.

TITLE: AI Integrated Smart E-mobility Towards Sustainable Development.

DATE: 18 Nov to 22 Nov, 2025.

ATTENDED BY: Ashish Nayyar, Prem Singh Deepak Kumar, Trivendra Kumar Sharma, Saurabh Gupta, Sunil Kumar, Vinay Singh Marwal

ORGANIZED BY: SKIT Jaipur

TITLE: Artificial Intelligence's Impact on Transforming Software, Robotics, Electrical, Electronics & Mechanical Fields.

DATE: 24 Nov to 29 Nov, 2025.

ATTENDED BY: Brij Mohan Sharma

ORGANIZED BY: Dhaahish Ahmed College of Engineering, Chennai

TITLE: A vision towards sustainable development in additive manufacturing

DATE: 17 Nov to 22 Nov, 2025.

ATTENDED BY: Vinay Singh Marwal

ORGANIZED BY: ATAL - National Institute of Technology, Agartala

STUDENT ACHIEVEMENTS

NAME OF THE STUDENT	SEMESTER	NAME OF THE AWARD/MEDAL	TEAM/INDIVIDUAL	UNIVERSITY/STATE/NATIONAL/INTERNATIONAL	SPORTS/CULTURAL/TECHNICAL
Anshuman Pareek	III Semester	First prize in robo rush at JECRC Jaipur	Individual	National	Technical
Dipanshu Jain	III Semester	2nd position in joistkwich at SKIT Jaipur	Team	University	Technical
Gourav Kumar	III Semester	2nd position in joistkwich at SKIT Jaipur	Team	University	Technical
Gyanender Pratap Rathore	III Semester	2nd position in joistkwich at SKIT Jaipur	Team	University	Technical
Mahendra Kumar Jangid	III Semester	2nd position in road odyssey at SKIT Jaipur	Individual	University	Technical
Rahul Chouhan	III Semester	2nd position in Crack The CAD event in ICI Fest	Individual	University	Technical
Prachi Thakur	V Semester	First prize in logo making competition at SKIT Jaipur	Individual	University	Technical
Saurabh Sharma	V Semester	First prize in robo war at JNU Jaipur.	Individual	National	Technical
Abhishek Kulariya	VII Semester	Winner in State Level Kabaddi Tournament at RTU Kota.	Team	State	Sports



“Interaction with Alumni on bridge the gap between classroom learning and industry expectations” 11th October, 2025.

The Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, organized an enriching Alumni Interaction Session with two distinguished alumni of the department. The session was conducted with the objective of guiding current students regarding career prospects, industry expectations, and professional growth pathways in the field of Mechanical Engineering.

The invited alumni speakers were:

1. Mr. Utkarsh Gaur – AEC Technologist, Mott MacDonald, Gurugram
2. Mr. Mudit Bhardwaj – Engineer, Bosch India Ltd., Bengaluru

The session commenced with a welcome address by the faculty coordinator, followed by an introduction of the guests. Both alumni shared their career journey right from campus life to securing their current industry positions.

Mr. Utkarsh Gaur discussed opportunities in the AEC (Architecture, Engineering & Construction) sector, highlighting modern trends such as BIM (Building Information Modeling), sustainable infrastructure planning, and the importance of software skills like AutoCAD, Revit, STAAD Pro, and digital engineering tools. He encouraged students to focus on skill-based learning, industry certifications, and developing problem-solving abilities to stay competitive in the evolving engineering landscape.

Mr. Mudit Bhardwaj, representing Bosch India Ltd., shared insights into the manufacturing and automotive industry, including Industry 4.0, automation, electric mobility, and the role of mechanical engineers in R&D and product development. He emphasized the importance of internships, hands-on projects, coding fundamentals, and multidisciplinary knowledge in emerging technologies such as EVs, AI-integrated manufacturing, and IoT applications.

The session was highly interactive, with students actively engaging in Q&A. The alumni addressed queries related to placements, technical skills, higher studies, resume building, and industry work culture. They also motivated students to participate in technical clubs, competitions, and research activities.



Alumni Interaction Session on “Life of a Seafarer and Career in Merchant Navy”

The Department of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur organized an insightful Alumni Interaction Session on the theme “Life of a Seafarer and Career in Merchant Navy.” The session was conducted by Mr. Jitendra Singh Shekhawat, an esteemed alumnus of the Mechanical Engineering Department (Batch 2004–2008), who is presently serving as Chief Engineer at Wilhelmsen Ship Management, a globally reputed marine service company. The event commenced with a warm welcome and formal introduction of the speaker by the faculty coordinator.

During the interaction, Mr. Shekhawat shared his inspiring professional journey, tracing his path from being a mechanical engineering student at SKIT to attaining the prestigious position of Chief Engineer in the Merchant Navy. He elaborated on the diverse career opportunities available in the maritime sector, eligibility criteria, qualification requirements, and training pathways for mechanical engineers. He also offered valuable insights into the life of a seafarer, highlighting the challenges, discipline, technical responsibilities, and adventurous aspects of working at sea, while emphasizing the importance of technical expertise, mental resilience, teamwork, and leadership skills.

The session witnessed enthusiastic participation from students, who actively engaged by seeking clarity on entry-level examinations, training institutes, certifications, and long-term career prospects in the Merchant Navy. Mr. Shekhawat patiently addressed all queries and encouraged students to pursue their career goals with dedication and perseverance. The event concluded with a vote of thanks by the department, expressing sincere gratitude to Mr. Shekhawat for his motivating address. Overall, the session proved highly beneficial, broadening students’ perspectives on alternative and rewarding career avenues for mechanical engineers in the maritime industry.

PLACEMENT STATISTICS



The Department of Mechanical Engineering recorded a commendable placement performance for the 2026 graduating batch. A total of 16 students secured 19 job offers from 10 reputed companies, reflecting strong industry engagement and student preparedness. Leading recruiters included Infosys, Torrent Gas, Asahi India Glass, Hero MotoCorp, Pinnacle Infotech, and other prominent organizations spanning core engineering, IT, and manufacturing sectors. The average package stood at approximately 4.06 LPA, indicating consistent placement outcomes across the batch.

Notably, several students received multiple offers, highlighting their technical competence, adaptability, and employability. The placement achievements underscore the department's sustained efforts in skill development, industry interaction, and career guidance, enabling students to meet current industry expectations.

ALUMNI STAR

Heartiest congratulations to Mr. Aman Bakolia, alumnus of the 2019 Batch, Mechanical Engineering Department, on his remarkable success in RAS 2025. His achievement reflects dedication, perseverance, and the strong academic foundation imparted by the department. He stands as a source of inspiration for current students and future engineers.

Congratulations



Mr. Aman Bakolia RAS-2025
2019 Batch Alumni
Mechanical Engineering
Department


RAS 2025



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