



**Swami Keshvanand Institute of Technology,
Management & Gramothan (SKIT), Jaipur**

Department of **MECHANICAL ENGINEERING**

Innovate. Design. Build.



Newsletter Biannual Bulletin

UPDATES AND INNOVATIONS IN ENGINEERING

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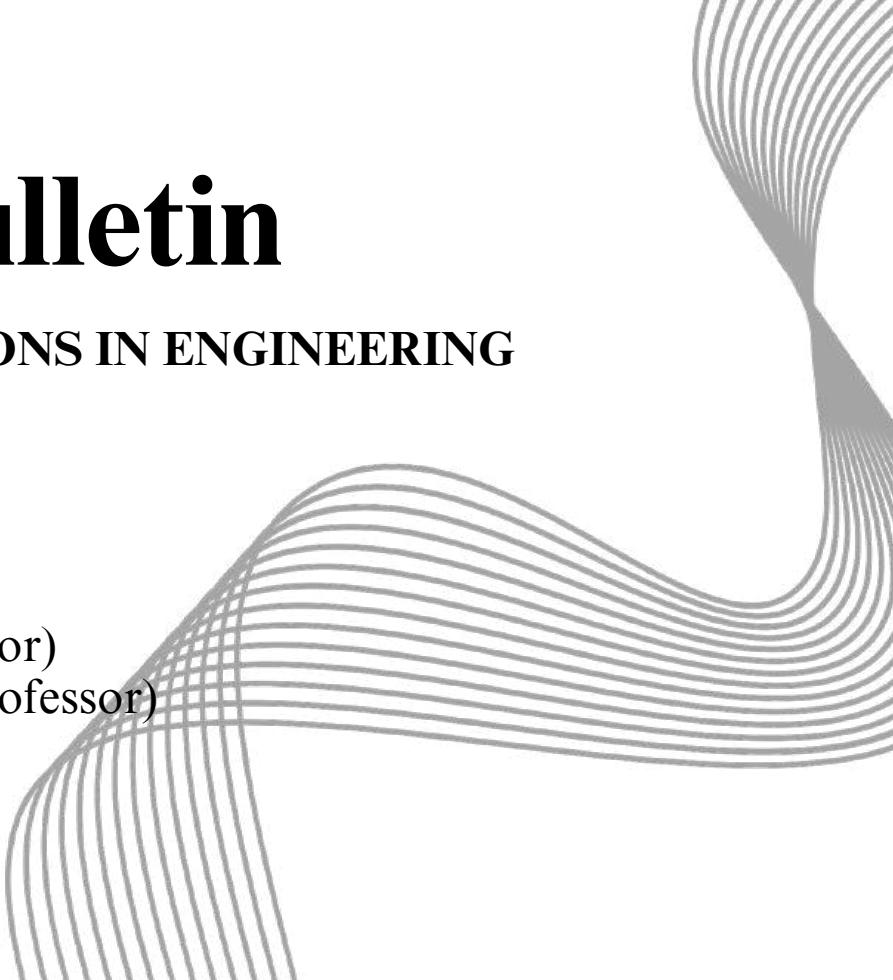
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From the Editor's Desk

We are delighted to bring you this edition of the Mechanical Engineering newsletter, showcasing the dynamic spirit of our department. From academic milestones and research breakthroughs to student-led initiatives, this issue highlights the collective efforts that drive our progress. We hope these stories spark inspiration, pride, and a shared commitment to excellence within our community.



Ms. Namita Soni
(Chief Editor)



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.

From the HOD's Desk

As we begin this new semester, the department is abuzz with academic energy, placement achievements, and vibrant student activities. Our students continue to excel—whether in classrooms, interviews, or technical events—reflecting our shared commitment to excellence. Let's sustain this momentum and keep building a legacy of innovation, skill, and leadership in mechanical engineering.



Dr. Dheeraj Joshi
(Professor and Head)

Vision and Mission of the Department

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.



DEPARTMENTAL ACTIVITIES



Faculty Development Program

Smart Use of Renewable

Energy Resources for Sustainable Future, SURER-2022

Department of Mechanical Engineering SKIT, Jaipur organized Student FDP on “Smart Use of Renewable Energy Resources for Sustainable Future, SURER-2022” from 21-25 February, 2022.

In the inaugural ceremony Prof. Dheeraj Joshi, Head, Mechanical Engineering addressed the workshop by welcoming all the guests, speakers and participants. Prof. S.L. Surana, highlighted different sources of green renewable energy and their smart uses. More than 200 students have participated for this workshop all over the country. Dr. M. V. Reddy, IRHQ, Canada was the Chief Guest of the program. The purpose of FDP SURER-2022 is to provide a platform for the disseminate of information and cognitive ideas to promote research respect among all active participants in the areas of Solar Thermal Systems, Solar PV, Alternative Fuels for IC Engines, Thermal Energy Storage, Wind Energy Potential and Applications and Energy System Modelling and Simulation.

In first session Dr. M. V. Reddy discussed about “Advances in high energy storage materials for electric vehicles. In second session Dr. Anil Kumar, DTU Delhi, discussed “Expectations and Uses of Solar Energy in Industrial Applications”.

The coordinators of the workshop were Dr. Chandan Kumar, Mr. Dinesh Kumar Sharma, Mr. Ankit Agarwal.

DEPARTMENTAL ACTIVITIES



Student Workshop on 'Introduction to Python Programming'

The Department of Mechanical Engineering in association with the e-Yantra Lab, SKIT and the IETE Student Chapter of SKIT, Jaipur organized a student workshop on 'Introduction to Python Programming' from 27 to 29 January, 2022. In the inaugural ceremony, Prof. Dheeraj Joshi, Head, Mechanical Engineering welcomed all the guests, speakers and participants. Dr. Achin Srivastav, workshop coordinator gave a brief introduction about the workshop. More than 200 students participated in the workshop from all over the country. Mr. Aryan Singh, CTO, TensaX Innovation Lab, Jaipur was the Chiefguest of the workshop. He discussed the prospects of Python Programming in enhancing the career of students. He also explained about the application part of Python Programming in Block Chain, Artificial Intelligence and Data Analytics. The other topics discussed in the workshop included Basics of Python and Importance & Application of Python. Hands on Sessions and Minor Projects on Python Programming were also provided to the students. The coordinators of the workshop were Dr. Manoj Kumar Sain, Dr. Achin Srivastav, Dr. Chandan Kumar, Mr. Praveen Saraswat, Mr. Ankit Agarwal, Mr. Ankit Vijay and Ms. Namita Soni.

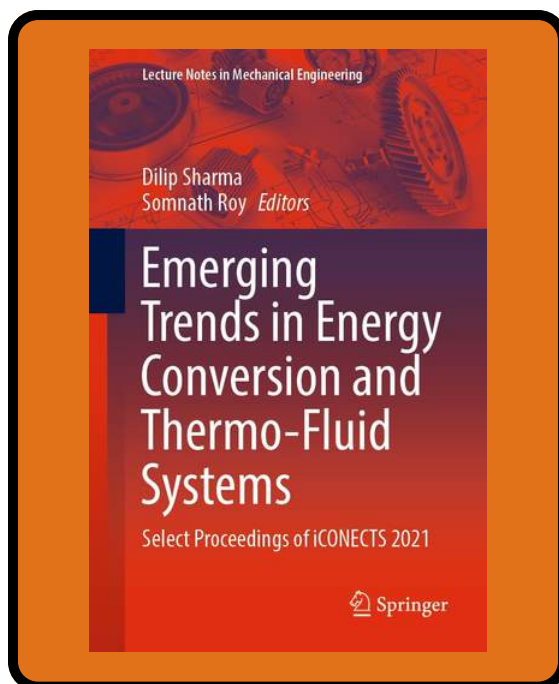
Expert Talk on 'Awareness About CAD/CAM Software'

The Department of Mechanical Engineering, SKIT, Jaipur organized an online expert talk on 'Awareness about CAD/CAM Software'. Mr. Ravi Kr. Swami, Director, CADEMATE, Jaipur discussed the importance of Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) for engineering students. He explained how the combination of the two terms CAD and CAM is used to describe the software and also talked about its application to software and also talked about its application to design and manufacture prototypes, finished products, and product runs. He elaborated how CAD/CAM offers design through manufacturing and is most often used with a Computer Numerical Control (CNC) machine, which is a motorized, manoeuvrable tool that is controlled by a computer according to specific instructions. Typical areas of concern discussed were about High-Speed Machining, Multifunction Machining, 5 Axis Machining, Feature Recognition and Machining and Automation of Machining Processes. The vote of thanks was delivered by Dr Deepak Kumar, Assistant Professor, Mechanical Engineering Department, SKIT.

FACULTY ACHIEVEMENTS

BOOK CHAPTERS PUBLISHED

AUTHOR/S	BOOK	BOOK CHAPTER	PUBLISHER
Chandan Kumar, Kunj bihari Rana, Suhaib Ansari, Raju Malani	Emerging Trends in Energy Conversion and Thermo-Fluid Systems	“Effect of D–DEE–E Blend and Various Operating Parameters on CI Engine Performance: An Experimental Study”	Springer



**“Every man who has become great owes his achievement to incessant toil.”
— Sir M. Visvesvaraya**



DEPARTMENTAL ACHIEVEMENTS

NPTEL ACHIEVEMENTS

NAME OF FACULTY/STUDENT	ACHIEVEMENTS
Brij Mohan Sharma	Topper of 5% (Jan Apr 2022) (Data Analytics with Python)
Dr. Dheeraj Joshi	Topper of 5% (Jan Apr 2022) (NBA Accreditation and Teaching and learning in Engineering NATE)
Dr. Manoj Kumar Sain	Topper of 5% (Jan Apr 2022) (Business Analytics For Management Decision)
Yogendra Singh (student)	Topper of 5% (Jan Mar 2022) (Integrated Marketing Management)
Akshay Verma (student)	Topper of 5% (Jan Apr 2022) (Enhancing Soft Skills and Personality)

PAPER PRESENTED IN CONFERENCES

TITLE	AUTHOR/S	CONFERENCE
Study of Working Parameters which affect the Performance of Earth Air Heat Exchanger.	Madhukar Kumar, Chandra Mohan Kumar, Amit Kumar Bansal	INCRTEET 2022, 16 to 17 March, 2022
Use of Industrial Internet of Things (IIOT) in Industry 4.0 - A Survey.	Madhukar Kumar, Amit Kumar Bansal	INCRTEET 2022, 16 to 17 March, 2022
Numerical Calculation of Heat Transfer in a Rectangular Channel with Triangular Vortex Generators in the Channel at Blade Angle 30 for Reynolds no of 800 1200 1600 and 2000.	Madhukar Kumar, Manoj Kumar, Amit Kumar Bansal	INCRTEET 2022, 16 to 17 March, 2022

FACULTY PARTICIPATIONS

FDP ATTENDED

TITLE	DATE	ATTENDED BY	ORGANIZED BY
SCILAB and XCOS – FOSS Alternatives for MATLAB and SIMULINK	7 to 11 February, 2022	Arun Beniwal	CMR institute of Technology, Bengaluru
Smart Use of Renewable Energy Resources for Sustainable Future	21 to 25 February, 2022	Arun Beniwal, Chandan Kumar, Chandra Mohan Kumar, Manu Augustine, Naveen Kumar Sain, Nitin Goyal, Praveen Saraswat, Raj Kumar, Sandeep Kumar Bhaskar, Sanjay Choudhary, Saurabh Gupta, Sumita Hemron, Trivendra Kumar Sharma,	Department of Mechanical Engineering, SKIT, Jaipur
Research Applications in the Field of Artificial Intelligence	04 to 08 January, 2022	Arun Beniwal, Chandan Kumar, Monu Gupta, Deepak Kumar, Sanjay Bairwa, Prem Singh	Department of CSE & IT, SKIT Jaipur
Carbon Balance and Environmental Sustainability	7 to 11 February, 2022	Chandra Mohan Kumar	BMS College of Engineering, Bengaluru
Emerging Trends in Science and Engineering	14 to 18 February, 2022	Chandra Mohan Kumar	Regional college, Jaipur
Modelling and Simulation in Engineering Applications (MSEA-2022)	22 to 26 March, 2022	Manoj kumar	Department of Electrical Engineering, SKIT, Jaipur

FACULTY PARTICIPATION

FDP ATTENDED

TITLE	DATE	ATTENDED BY	ORGANIZED BY
Recent Trends of Robotics and Automation	05 to 11 January, 2022	Arun Beniwal, Sudesh Garg	Department of Electronics and Communication Engineering, SKIT Jaipur
Intellectual Property Rights	18 to 22 January, 2022	Amit Kumar Bansal, Arun Beniwal	IPR Cell & Department of Management Studies, SKIT, Jaipur
Manufacturing and Processing of Advanced Metallic, Ceramic and Composite Materials	14 to 18 March, 2022	Vikash Gautam	MNIT, Jaipur

WORKSHOP ATTENDED

TITLE	DATE	ATTENDED BY	ORGANIZED BY
Advanced Technology for Materials Physics and Engineering	20 to 26 January, 2022	Mr. Deepak Kumar	IIT, Indore
One Week National Workshop on Materials Fabrication & Characterization Techniques	24 to 28 January, 2022	Mr. Amit Kumar Bansal	Department of Physics, SKIT M & G Jaipur



PLACEMENT STATISTICS

- Total 54 Students got placed
- Top Recruiters: The top recruiters are:
 - Pinnacle Infotech solutions: 9 students
 - Wipro: 6 students
 - Thrillopilila: 6 students
 - Cognizant: 6 students
 - Cyntexa: 4 students
 - Infosys: 3 students
 - GR Infraprojects: 4 students
 - Habilelabs: 3 students
 - TCS: 2 students
 - Jaro Education: 2 students
 - Capgemini: 2 students
- Highest Package: The highest package offered is 8.5 LPA by Quantiphi Analytics Solution.





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