



MODY
UNIVERSITY

OF SCIENCE AND TECHNOLOGY

LAKSHMANGARH • RAJASTHAN

A Leading Women's University



SCHOOL OF ENGINEERING AND TECHNOLOGY



**ANNUAL
REPORT**

| 2023-24

SCHOOL OF ENGINEERING AND TECHNOLOGY

ANNUAL REPORT 2023 - 2024



**PREPARED BY:
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**MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY
LAKSHMANGARH – 332311 (RAJASTHAN), INDIA**

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1. ABOUT SCHOOL OF ENGINEERING AND TECHNOLOGY

1.1 Vision

To be a Centre of Excellence in technological learning and research comparable to the best in the World with the special commitment to women education.

1.2 Mission

- To offer state-of-the art facilities for providing world class education in Engineering & Technology at UG, PG and doctor level.
- To imbibe the spirit of Innovation and Entrepreneurship amongst students.
- To create intellectually capable and imaginatively gifted leaders to serve the society and industry.
- To promote high standards of professional ethics, transparency and accountability

1.3 Program Educational Objectives

- Identify, formulate, analyze, and appropriate Engineering and Mathematical principles to develop creative applications suitable for solving real life problems, using her skills and latest tools.
- Inculcate the habit of lifelong learning in order to keep herself up-to-date to the changing technical, industrial and social scenarios.
- Effectively communicate and work in a team comprising of multidisciplinary, multilingual and multi-ethnic members.
- Understand her personal, professional, global, social and ethical responsibilities.

1.4 Student Outcomes

- An ability to apply knowledge of Mathematics, Science, and Engineering.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

- An ability to function on multidisciplinary teams.
- An ability to identify, formulate, and solve engineering problems.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognition of the need for, and an ability to engage in life-long learning.
- Knowledge of contemporary issues.
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

1.5 Resources

1.5.1 Laboratories

S. No.	Department	Laboratory
1.	Computer Science and Engineering	DBMS Lab
2.	Computer Science and Engineering	IBM Lab
3.	Computer Science and Engineering	Operating System Lab
4.	Computer Science and Engineering	Programming Lab
5.	Computer Science and Engineering	CS Postgraduate Lab
6.	Computer Science and Engineering	Artificial Intelligence Lab
7.	Computer Science and Engineering	DOT Net/ Advanced Java Lab
8.	Computer Science and Engineering	OOPS lab (C ++)
9.	Electronics and Communication Engineering	VLSI Lab
10.	Electronics and Communication Engineering	Digital Electronics Lab
11.	Electronics and Communication Engineering	Analog Electronics Lab
12.	Electronics and Communication Engineering	Microprocessors Lab
13.	Electronics and Communication Engineering	Microwave & Antenna Lab
14.	Electronics and Communication Engineering	Communications Lab
15.	Electronics and Communication Engineering	Industrial Electronics Lab
16.	Electronics and Communication Engineering	Multi Sim Lab
17.	Electronics and Communication Engineering	EMI Lab
18.	Electronics and Communication Engineering	Electronic Workshop and Power Electronics Lab
19.	Science	Physics
20.	Science	Chemistry
21.	Electrical Engineering	Control System

22.	Electrical Engineering	Power System
23.	Electrical Engineering	Electrical Machines
24.	Electrical Engineering	Electrical Simulation Lab
25.	Electrical Engineering	Network Analysis
26.	Electrical Engineering	Electrical and Electronic Measurement
27.	Mechanical Engineering	CAD
28.	Mechanical Engineering	Workshop
29.	Mechanical Engineering	I.C. Engines, Refrigeration,Air-conditioning
30.	Mechanical Engineering	Mechanics of Solid
31.	Mechanical Engineering	Fluid Mechanics and Fluid Machineries
32.	Mechanical Engineering	Thermodynamics
33.	Mechanical Engineering	Measurement and Metrology
34.	Mechanical Engineering	Manufacturing Technology
35.	Nuclear Science and Technology	Nuclear lab
36.	Biomedical Engineering	Anatomy &Physiology Laboratory
37.	Biomedical Engineering	Biomedical Instrumentation Laboratory
38.	Biomedical Engineering	Biomedical Equipment Laboratory
39.	Biomedical Engineering	Bio signal Processing Laboratory
40.	Biomedical Engineering	Biomedical Image Processing Laboratory
41.	Biomedical Engineering	Pathology and Microbiology Lab
42.	Biomedical Engineering	Biomaterials & Tissue Engineering Laboratory

1.5.2 List of faculty members

S. No.	Name	Designation	Deptt.	Qualification	Specialization
1.	Dr. Prateek Bhanti	Professor & Dean	CSE	Ph.D. M.Tech.(IT)	E-Governance, MIS,AI
2.	Dr. Vinod Maan	Professor & (HOD)	CSE	Ph.D. M.Tech.(CSE) B.E.(CSE)	Cellular Automata, Computational Epidemiology
3.	Dr. Sanjeev Patwa	Associate Prof.	CSE	Ph.D. M.Tech.(IT)	Software Engineering, Software Testing, Social Sites
4.	Dr. Anand Sharma	Associate Prof.	CSE	Ph.D. M.Tech.(IT) B.E.(IT)	Quantum Cryptography, Network/Information Security
5.	Dr. Vikas Raina	Associate Prof.	CSE	Ph.D. M.Tech.	Underwater Wireless Sensor Networks
6.	Dr. Rajesh Yadav	A.P.	CSE	Ph.D. M.Tech.(IT)	Cloud Computing
7.	Dr. Somil Jain	A.P.	CSE	Ph.D. M.Tech.(CSE) B.Tech.(CSE)	Computer Networks,E-Governance
8.	Dr. Vinod Kumar	A.P.	CSE	Ph.D. M.Tech.(CSE) B.Tech.(CSE)	

9.	Mrs. Aditi Kajala	A.P.	CSE	Ph.D.* M.Tech.(CSE)	Fault Testing in Digital Circuits, Algorithm Design
10.	Mr. P.K. Bishnoi	A.P.	CSE	Ph.D.* M.Tech.(CSE)	Web Engineering
11.	Mr. Hitesh Jangir	A.P.	CSE	M.Sc.(CSE) B.E.(IT)	Internet of Things, Cyber Security, Artificial Intelligence and Data Mining
12.	Ms. Nootan Verma	A.P.	CSE	Ph.D*. M.Tech.(CSE) B.Tech.(CSE)	
13.	Ms. Rajshree Soni	A.P.	CSE	Ph.D*. M.Tech.(CSE) B.Tech.(CSE)	
14.	Dr. Rajeev Pourush	Associate Prof. (HOD)	ECE	Ph.D.(Microwave Engineering)	Microwave Micro strip Planar structures &Antenna Systems
15.	Dr. Jeetu Sharma	A.P.	ECE	Ph.D. M.Tech.(VLSI and Microelectronics) B.E.(ECE)	Wireless Sensor Networks In Smart grid
16.	Dr. Sandeep Jaiswal	A.P.	BME	Ph.D.(BME) M.Tech.(BME) M.Sc.(Physics)	Biomedical Signal and Image Processing, Effects of Non-thermal Radiation On Biological System, Medical Imaging, Biomechanics

17.	Dr. Manish Kumar	A.P	BME	Ph.D M.Tech B.Tech	Medical Image Processing, Signal Processing, Machine Learning, Heuristic Optimization
18.	Dr. Sunita Kumari	Assistant professor (HOD)	EE	Ph.D. M.Tech.(Power System) B.E.(EE)	Non Linear Control Systems, Power Electronics & Drives, Power System
19.	Dr. Devi Lal Punia	A.P	EE	Ph.D M.Tech B.Tech	Energy
20.	Dr. Vikrant Sharma	A.P.	ME	Ph.D. M.Tech. (Manufacturing System Engineering) B.E.(Production Engineering)	Industrial Engineering, Production Engineering
21.	Dr. Mukul Kant Paliwal	A.P.	ME	Ph.D. M.Tech. (Machine Design) B.Tech.(ME)	Solar energy, Photovoltaic thermal system, Machine Design
22.	Dr. Mukeshwar Yadav	A.P.	ME	Ph.D. M.Tech B.Tech.(ME)	
23.	Dr. Subrata Jana	A.P	NST	Ph. D. M.E B.Tech	Nuclear Reactor, Plasma and Superconductor

24.	Dr. A. Maharshi	Associate Prof.	Mathematics	Ph. D.	Boundary Layer Theory and Numerical Analysis
25.	Dr. Anita	A.P	Mathematics	Ph. D.	

1.5.3 List of Non-Teaching Staff

S.No.	Name of Employee	Designation
1.	Mr. Amit Soni	Office Assistant
2.	Mr. Sushil Pareek	Office Assistant
3.	Mr. Sanjeev Kumar Sharma	Sr. Lab Technician
4.	Mr. Ramji Lal Saini	Lab Assistant
5.	Mr. Vikram Singh Saini	Lab Technician
6.	Mr. Vijendra Singh	Lab Technician
7.	Mr. Sunil Kumar Sharma	Lab Technician
8.	Mr. Madhav Gopal Sharma	Lab Technician
9.	Mr. Vinod Saini	Lab Technician
10.	Mr. Sunil Kumar Pradhan	Lab Technician
11.	Mr. Bhawani Shanker Sharma	Lab Technician
12.	Mr. Pramod Kumar Saini	Lab Technician
13.	Mr. Ramesh Kumar	Workshop Mechanic
14.	Mr. B.L.Meel	Workshop Mechanic
15.	Mr. Bharat Singh Shekhawat	Lab Technician
16.	Mr. Ram Swaroop	Workshop Attendant
17.	Mr. Ravi Kumar Chomal	Lab. Technician
18.	Mr. Satya Narayan Panchal	Senior Lab Technician

2. Department of Computer Science and Engineering

The Department of Computer Science & Engineering (CSE) is involved in providing quality education at Undergraduate (UG), Post Graduate (PG) and Doctoral Levels. The department imparts world class education, training and research. The contents of the courses under the department are continuously updated and the laboratories modernized to incorporate the rapid changes in technology and industry. The department also promotes active industry-institute collaboration by identifying areas of interest and taking part in sponsored research projects and consultancy services.

The department is committed to prepare Engineers who are highly sought after, productive, and well-respected for their work, and who contribute to new developments in computing. Also the department gives students in other disciplines an appropriate foundation in computing for their education, research, and experiences after graduation.

➤ Objectives of the Department

- To provide students with a strong foundation in mathematical, scientific and engineering fundamentals so as to comprehend, analyze, design and create products/ solutions for automation of real life processes.
- To inculcate in students professional and ethical attitude, effective communication skills, leadership, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context.
- To provide student with an academic environment with awareness of excellence, and the life-long learning needed for a successful professional career.

➤ Short Term Goals of the Department

- To achieve academic excellence.
- To place students in reputed industries.
- To develop state of the art laboratories.
- To train faculty members in the advanced domains of computer science
- Joint collaboration with reputed premier institutions and research organizations.

- To carry out quality research work.
- To impart technical training & soft skills

➤ **Long Term Goals of the Department**

- To establish the department as an ideal learning centre in teaching & research.
- To establish centres of excellence in various fields of computer science.
- To enhance Industry Institute interaction.
- To meet the social, ecological and ethical needs of the region.

2.1 DEPARTMENTAL ACTIVITIES

❖ Session on "Generative AI"

Date: February 07, 2024

Bechtel Corporation is an American engineering, procurement, construction, and project management company, founded in San Francisco, California and headquartered in Reston, Virginia. Bechtel also carries out startup project and operations, technology licensing and consulting, and financing and equity investments.

Mr. Sanjay Kothari, the Senior Product Manager at Bechtel, graced with his presence during the session on Generative AI. His insightful discourse on the topic left a profound impact on the minds of our students, and the students felt privileged to have had the opportunity to learn from him. His emphasis on current technology trends and strategies for aspiring software developers resonated strongly with the audience, highlighting the importance of staying updated for successful careers in the technology sector.

❖ Microsoft orientation activity

Microsoft Talk event organized on February 29 and March 1, 2024 for the whole university, particularly targeting SET, SOL, SLAS, SOB, and SOD, 2nd year students. We were honored by the presence of Mr. Rahul Bhargava Sir, Founder of Shekunj.com and R dot ventures, who shared

invaluable insights on various topics, including and resources like Google courses and the Microsoft Career Program.

Another speaker was Ms. Sakshi Mishra – Senior DevOps Professional and Cloud Architect at Google who provided profound insights into cloud technology, DevOps, SQL, AI, and ML. Her expertise illuminated the strategic integration of cloud with DevOps and highlighted its impact on AI and ML, providing attendees with valuable insights into DevOps excellence, Azure Machine Learning, and the diverse applications of AI.

Another speaker was Mr. Dharendra Yadav, who took the non-technical session on Power BI and Microsoft Excel. He is currently serving as a Packaged Application Development Analyst at Accenture, a leading consulting and technology Services Company. He holds a post-graduation in advanced computing and possesses over four years of experience working with multinational corporations. His expertise spans across cutting-edge technologies, including Microsoft Excel, Power BI, and Structured Query Language (SQL).

❖ **5 Days workshop On Machine Learning and Neural Networks Powered By: Intel**

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SCHOOL OF ENGINEERING AND TECHNOLOGY

1-WEEK
(5-DAYS) WORKSHOP
ON MACHINE LEARNING & NEURAL NETWORK

Powered by: **intel**

30 MARCH 2024 to 03 APRIL 2024 **1 WEEK (35Hrs)**

FACULTY COORDINATOR
DR. VINOD KUMAR
(ASSISTANT PROFESSOR, CSE)
9813324223

DR. RITURAJ SINGH RATHORE
(ASSISTANT PROFESSOR, ECE)

RESOURCE PERSON
MR. SALAI DEVA
MR. SANGRAM BAGADE

www.modyuniversity.ac.in 1800-419-9988

Day 1:

On the inaugural day of technical training under the guidance of Mr. Sangram Bagade and Mr. Salai Deva, learners delved into the foundational aspects of Python programming. With their expertise in Machine Learning, Artificial Intelligence, and Robotic Process Automation (RPA), along with IoT solutions, the session was promising. Participants were introduced to Python's fundamental concepts,



laying a solid groundwork for upcoming advanced topics. Mr. Bagade and Mr. Deva's shared insights provided a comprehensive understanding of Python's role in automation and data science. Excitement filled the room as learners embarked on their journey into the realm of technology.

Day 2:

On the second day of the AI and ML technical training session led by Mr. Sangram Bagade and Mr. Salai Deva, participants delved into practical applications through a game-based learning approach. They introduced the "Farmers Game," illustrating concepts of decision-making, navigation, and strategy in AI and ML contexts. Participants learned to analyze data, make informed choices, and understand the basics of predictive modeling. Through interactive gameplay, they gained insights into the complexities of real-world scenarios and honed their skills in problem solving. Their innovative teaching methods



facilitated an engaging and enriching learning experience for all participants.

Day 3:

Commencing the third day of the AI and ML technical training session led by Mr. Sangram Bagade and Mr. Salai Deva, participants immersed themselves in the rudiments of machine learning and neural networks. They initiated the day by elucidating the core principles underpinning machine learning algorithms, emphasizing their pivotal role in data analysis and pattern recognition. Participants were then introduced to the intricate architecture and functionalities of neural networks. Through a blend of theoretical discourse and practical exercises, attendees garnered a profound comprehension of how neural networks interpret data and formulate predictions. Their adept guidance ensured a robust foundation for continued exploration into AI and ML.

Day 4:



The fourth day of the interactive technical training session on AI and ML was marked by a deep dive into essential Python libraries, namely NumPy and Pandas. Mr. Bagade and Mr. Deva meticulously elucidated the significance of these libraries in data manipulation and analysis within the context of AI and ML. Participants were guided through hands-on exercises demonstrating the

versatility of NumPy for numerical computations and array manipulation, crucial for data preprocessing in machine learning tasks. Furthermore, the session delved into Pandas, showcasing its power in handling structured data through its intuitive DataFrame objects. Through practical examples and real-world applications, participants grasped the importance of these libraries in streamlining data preprocessing workflows and facilitating efficient data exploration. Mr. Bagade and Mr. Deva's comprehensive instruction provided attendees with valuable insights into harnessing the capabilities of NumPy and Pandas for successful AI and ML endeavors.

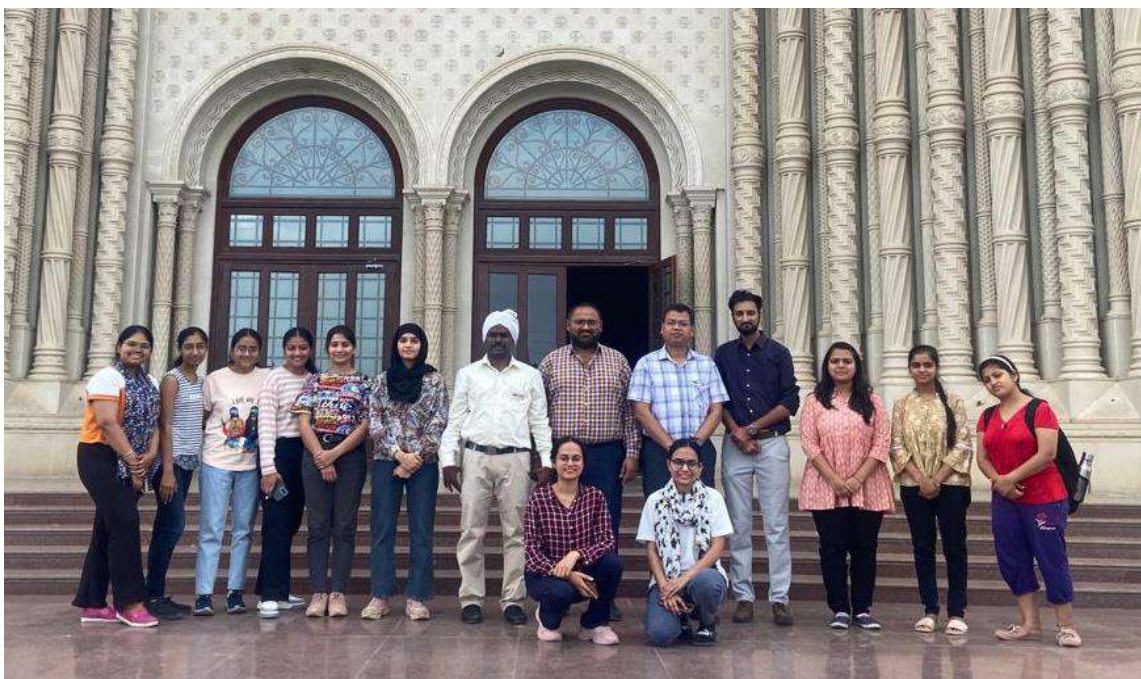
Day 5:

On the fifth day of the technical training session on AI and ML, participants delved into regression analysis, a fundamental concept in predictive modeling. They explained the principles of regression and its various types, elucidating their applications in real-world scenarios. The focus was particularly on linear regression for the day, where participants learned about its basic concepts, assumptions, and mathematical formulation. Through practical demonstrations and case studies, attendees gained insights into fitting linear regression models to datasets and interpreting their results. Their



comprehensive instruction not only provided a theoretical understanding of linear regression but also equipped participants with practical skills essential for applying regression analysis in AI and ML projects. The session fostered a deeper appreciation for the predictive capabilities of regression models and their significance in data-driven decision-making processes.

On the final day of the interactive technical training session on AI and ML, under the guidance of Mr. Sangram Bagade and Mr. Salai Deva, participants delved into advanced regression techniques and other sophisticated models. Mr. Bagade and Mr. Deva expanded upon regression



by exploring additional methods such as Convolutional Neural Networks (CNN), K-Nearest Neighbors (KNN), and Single Shot MultiBox Detector (SSD). These models are pivotal in tackling complex tasks such as image recognition, object detection, and pattern analysis. Through a combination of theoretical lectures and practical demonstrations, participants gained a comprehensive understanding of how these algorithms function and their respective applications in diverse domains. Mr. Bagade and Mr. Deva's expertise provided invaluable insights into leveraging advanced AI and ML techniques effectively. The session concluded the training program on a high note, empowering participants with the knowledge and skills necessary to embark on sophisticated AI and ML projects confidently.

During the six-day technical training session on AI and ML led by Mr. Sangram Bagade and Mr. Salai Deva, participants were immersed in a comprehensive learning journey covering fundamental Python programming to advanced AI models.

The inaugural day focused on Python basics, laying the groundwork for subsequent sessions. Bagade and Deva, experts in ML, AI, RPA, and IoT solutions, provided insights into Python's role in automation and data science.

Day two introduced a game-based learning approach with the "Farmers Game," emphasizing decision-making and problem-solving in AI and ML contexts. Participants honed their skills through interactive gameplay, gaining practical insights into real-world scenarios.

On day three, attendees delved into machine learning and neural networks, learning about core principles and network architecture. Their guidance facilitated a profound understanding of how neural networks interpret data, setting a robust foundation for advanced topics.

The fourth day saw a deep dive into essential Python libraries, NumPy and Pandas, crucial for data manipulation in AI and ML tasks. Through hands-on exercises, participants grasped the significance of these libraries in streamlining data preprocessing workflows.

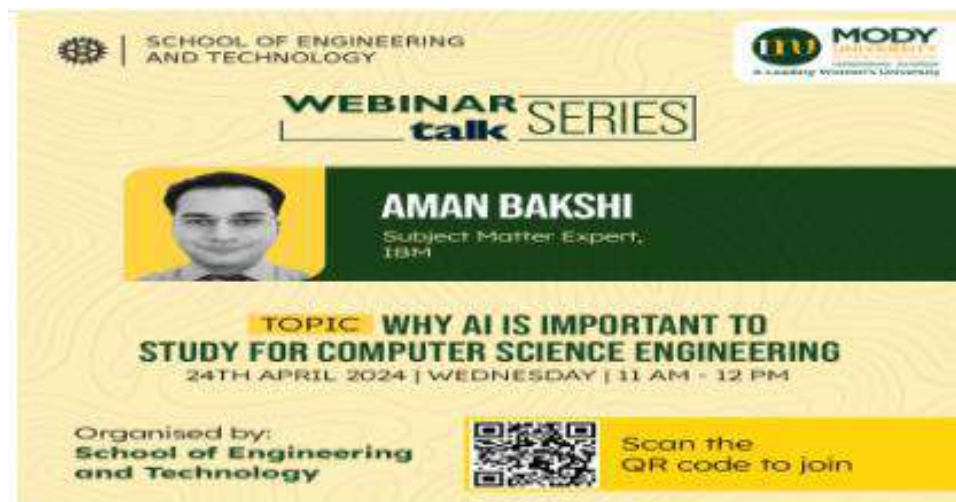
Day five centered on regression analysis, particularly linear regression, elucidating its principles and applications. Practical demonstrations equipped participants with skills for fitting models to datasets and interpreting results, enhancing their data-driven decision-making abilities.

The final day explored advanced regression techniques and sophisticated models such as CNN, KNN, and SSD. They provided comprehensive insights into these models, their functionalities, and

real-world applications, empowering participants to leverage advanced AI and ML techniques effectively.

Throughout the training, Mr. Bagade and Mr. Deva's expertise and innovative teaching methods facilitated an engaging and enriching learning experience. Participants gained practical skills and theoretical knowledge, enabling them to confidently embark on AI and ML projects. The session concluded on a high note, empowering participants with the necessary tools to navigate the complexities of AI and ML confidently.

❖ Webinar on "Why AI is Important to Study for Computer Science Engineering"



The webinar titled "Why AI is Important to Study for Computer Science Engineering" was organized to provide insights into the significance of Artificial Intelligence (AI) in the field of Computer Science and Engineering (CSE). The session was aimed at 12th students (outsider), Mody School Students, etc. keen on understanding the impact of AI on various aspects of CSE.

Key Topics Covered

1. Introduction to Artificial Intelligence:

- Definition and scope of AI.
- Historical development and milestones in AI research.

- Key concepts and terminologies in AI.

2. Importance of AI in Computer Science Engineering:

- Enhancing problem-solving capabilities.
- Automation of repetitive tasks.
- Improving decision-making processes with data-driven insights.

3. AI Applications in Various Domains:

- Healthcare: Predictive analytics, medical imaging.
- Finance: Fraud detection, algorithmic trading.
- Transportation: Autonomous vehicles, traffic management.
- Entertainment: Recommendation systems, content generation.

4. AI and Emerging Technologies:

- AI and Internet of Things (IoT).
- AI and Big Data.
- AI in cybersecurity.

5. Ethical and Societal Implications:

- Privacy concerns.
- Bias in AI algorithms.
- Job displacement and the future of work.

6. AI Education and Career Opportunities:

- Academic programs and courses in AI.
- Skills required to excel in AI.
- Career paths and job roles in AI.

Detailed Discussion

Introduction to Artificial Intelligence Mr. Aman began with a comprehensive introduction to AI, explaining its fundamental principles and the evolution of AI technologies. She highlighted the interdisciplinary nature of AI, which combines computer science, mathematics, statistics, and cognitive science.

Importance of AI in Computer Science Engineering

Mr Aman emphasized that AI is revolutionizing the field of CSE by enabling machines to perform tasks that typically require human intelligence. He illustrated how AI enhances computational efficiency, optimizes processes, and enables the development of intelligent systems.

AI Applications in Various Domains

The speaker provided real-world examples of AI applications across different sectors, showcasing the transformative power of AI. He explained how AI-driven innovations are solving complex problems and creating new opportunities.

AI and Emerging Technologies

The discussion moved towards the integration of AI with other emerging technologies. Mr. Aman explained how AI amplifies the capabilities of IoT devices, enhances Big Data analytics, and strengthens cybersecurity measures.

Ethical and Societal Implications

Mr. Aman addressed the ethical challenges posed by AI, such as privacy issues, algorithmic bias, and the impact on employment. She stressed the need for developing ethical AI frameworks and policies to mitigate potential risks.

AI Education and Career Opportunities

The session concluded with a focus on AI education and career prospects. Mr. Aman outlined the educational pathways, including undergraduate and postgraduate programs, certifications, and online courses. She also discussed the skills required for AI roles, such as programming, data analysis, machine learning, and critical thinking.

Q&A Session

The webinar featured an interactive Q&A session where participants asked questions on various topics. Key questions included:

- How to start a career in AI?
- What programming languages are most relevant for AI?

- How to address ethical concerns in AI projects?

Mr. Aman provided detailed answers and offered additional resources for further learning.

Conclusion

The webinar successfully highlighted the critical role of AI in Computer Science Engineering, inspiring participants to delve deeper into AI studies and careers. The session was well-received, with participants appreciating the comprehensive coverage of topics and the practical insights shared by Mr. Aman.

❖ **Workshop on IT, ICT, and IoT in Agriculture for Female Students of the College of Agriculture, Fatehpur**

A one day Workshop for female students of the College of Agriculture, Fatehpur, on IT, ICT, and IoT in Agriculture, was conducted on 26/April/2024 at 11.00 AM in mini Auditorium of

Mody University. Dean Academics Dr Anil Saroliya and Dean SET Dr Prateek Bhanti along with other faculty members were present in the inaugural session of the workshop.

The aim of the workshop was to integrate modern technology into agricultural practices. The workshop covered topics such as applications, benefits, case studies, and hands-on demonstration of IOT tools for Agriculture. Around 80-85 female students were participated in the work shop. The student came to the university with four faculty member of their college.

The coordinators and recourse person of the workshop were Mr. P K Bishnoi and Dr Sanjeev

Patwa. The live demonstration of the automatic water pump controlling system was presented in the workshop. The workshop was a great success, Student and faculty members appreciated the content of the workshop.



FACULTY ACHIEVEMENTS:

1. Dr. Anita has participated in 2-Days workshop on “Contribution of Bharatiya Gyan Parampara in Mathematics as per National Education Policy 2020” held from April 03-04, 2024 organized by PDUSU, Sikar, India.
2. Dr. Anita has successfully attended the 6-Days Faculty Development Program (Online Mode) on “Research Papers, IPR, and Project Proposal Writing” held from May 06-11, 2024 organized by ABES Engineering College, Ghaziabad, India.

2.2 Department of Electronics & Bio-Medical Engineering

The Department of Electronics and Bio-Medical Engineering is involved in providing quality education at Under Graduate (UG) education exclusively meant for women candidates. The department has a rich tradition of teaching and research and is widely recognized to be a pioneer in Electronics and Communication Engineering education in India. As it reached its heights, more and more, it started adding PG programs in VLSI design and Wireless Communication Technology; it offers PhD programs in the areas of VLSI Design, Communication System & Engineering, Sensor Networks, Mobile and Wireless Communication etc, which provides a platform exclusively for bright young women graduates and postgraduates to conduct research in state-of-the-art technologies.

Biomedical engineers analyze and design solutions to problems in biology and medicine, with the goal of improving the quality and effectiveness of patient care. Biomedical engineers design electrical circuits, software to run medical equipment, or computer simulations to test new drug therapies. They also design and build artificial body parts such as hip and knee joints. In some cases, they develop the materials needed to make the replacement body parts. They also design rehabilitative exercise equipment. Some specialty areas within biomedical engineering include bioinstrumentation; biomaterials; biomechanics; cellular, tissue, and genetic engineering; clinical engineering; medical imaging; orthopaedic surgery; rehabilitation engineering; and systems physiology.

➤ **Objectives**

- To train students so that they will be able to indigenously build and confidently handle electronics systems, equipment and component with creativity and critical spirit in the technological development viable for our country.
- To enable students to innovate, design and develop multi-disciplinary products and equip student with technical and communication skills in order to be able to perform in organizations globally.
- To build strong fundamental knowledge amongst student to pursue higher education and continue professional development in Electronics & Communication and other related fields.

- To enable students to design systems and products, such as artificial internal organs, artificial devices that replace body parts, and machines for diagnosing medical problems.
- To train clinicians and other personnel on the proper use of equipment.

The Departmental Board of Studies (BOS) and Academic Planning Committee (APC) of the department of regularly meet to decide and incorporate changes in the structure of the syllabi and its contents as per the present needs.

➤ **DEPARTMENTAL ACTIVITIES**

❖ **Poster and Presentation Competition on World Osteoporosis Day 20th October, 2023**

The Poster and Presentation Competition on World Osteoporosis Day was an engaging and educational event that successfully raised awareness about osteoporosis and promoted a culture of health and well-being. The event included poster and oral presentation competitions, and it concluded with a prize distribution ceremony graced by a distinguished guest and faculty members. The event featured insightful words of wisdom from the Head of the Department of Biomedical Engineering and a motivational talk by the Dean of the School of Engineering and Technology (SET).

Event Activities:

Registration and Opening Ceremony: The event began with a registration process, where participants submitted their posters and presentation materials. An opening ceremony welcomed all attendees and set the tone for the competition.



Poster Competition: Participants showcased their creativity and knowledge through a diverse range of posters related to osteoporosis. These posters were displayed throughout the event for attendees to explore and learn from.



Oral Presentation Competition: In the presentation category, participants presented their research findings and knowledge on osteoporosis. The presentations were informative and engaging, addressing various aspects of the disease.



Prize Distribution: The event culminated with a prize distribution ceremony, where a distinguished guest was invited to distribute awards and certificates to the winners. The ceremony acknowledged and celebrated the hard work and dedication of the participants.

Prize Categories: The competition had the following prize categories:

1. Poster Presentation
2. Oral Presentation

Winners and Prizes:

The competition witnessed an impressive level of participation and a high standard of work. The winners in each category received gifts along with certificates.



❖ **Nationwide Roadshow on Digital India RISC-V (DIR-V) Program at Mody University of Science and Technology 17-18NOV 2023**

“RISC-V (DIR-V) Program will offer opportunities to students, startups & entrepreneurs, further catalysing the semiconductor ecosystem in India”: MoS Rajeev Chandrasekhar

SHAKTI and VEGA Processors Anchor DIR-V Ecosystem, Enabling Collaboration with Start-ups and Entrepreneurs Innovation, functionality, performance — these are the mantras for future of RISC-V (DIR-V) Program

“Future is Bright, Future is DIR-V for India”: MoS Rajeev Chandrasekhar

This event is being concurrently held at 15 academic institutions across India including Mody University of Science and Technology from Rajasthan. The Dr. Jeetu Sharma, IEEE branch counselor is the Regional Coordinator, The student coordinators were: Geetika Nag, Aditi Upadhayay, Gunjan Aggarwal, Anshika Yadav, Anuj, Simran Khan, and Chetna Mishra. The faculty coordinators were, Dr. Vikas Raina, Dr. Subrata Jana, Dr. Rituraj Singh Rathore of this whole program at Mody University. A large number of teaching staff, engineering students and scholars from the research department attended the workshop. The inaugural program was streamed live on the given link.

<https://www.youtube.com/live/l7yq1Ao4wHI?si=FFIHx4Ebn1CBG2J6>

The Nationwide roadshow is being jointly organized by C-DAC, IEEE India Council and Ministry of Electronics & IT (MeitY) on 17-18 November 2023, with participation from global leaders in the RISC-V design area. Union Minister of State for Skill Development & Entrepreneurship and Electronics & IT Shri Rajeev Chandrasekhar today flagged off the Nationwide Roadshow on Digital India RISC-V (DIR-V) Program.

In this program Mr. Magesh E, Director General, C-DAC; Ms. Calista Redmond, CEO, RISC-V International, Prof. V. Kamakoti, Director, IITM & Chief Architect, DIR-V Program; Ms. Sunita Verma, Scientist G & Group Coordinator, MeitY, Govt. of India; Dr. John Jose, Professor, IIT Guwahati & Vice Chair, IEEE India Council; Prof. Krste Asanovic, Chief Architect, Si Five & Professor at UC Berkeley; Mr. Alexander Redkin, Director, Syntacore; Mr. Balaji Baktha, Founder and CEO, Ventana Micro Systems; Mr. S. Krishnakumar Rao, Senior Director, C-DAC & Program Manager, DIR-V Program joined and address to enlightened and motivated the participants in realizing the vision laid by PM Modi of creating and adoption open-source technologies.

As part of the Digital India RISC-V (DIR-V) program announced by Minister Rajeev Chandrasekhar in 2022, successful tapeouts were carried out for – (a) 32-bit/ 64-bit SHAKTI Processors at 180nm (SCL foundry) and 22nm (Intel foundry) by IIT Madras, (b) 32-bit AJIT Processor at 180nm (SCL foundry) by IIT Bombay, and (c) 32-bit VEGA Processors at 130nm (Silterra foundry) and 64-bit VEGA Processors at 180nm (SCL Mohali) by C-DAC.

C-DAC has now created a series of ARIES Development Boards based on VEGA Processor Chip viz. ARIES Micro, ARIES V2, ARIES V3, ARIES IoT and ARIES DOT. These development kits are fully indigenous and 'Made in India' products targeted for learning, embedded system design, and IoT applications. The boards, built upon the RISC-V ISA-compliant VEGA Processor, come with easy-to-use hardware and software.

Shri Rajeev Chandrasekhar said, “Our prime focus is to enable the growth of the DIR-V ecosystem, aiming for India to emerge as a leading nation in innovating around the DIR-V family of chips and systems. This program will play a pivotal role in realizing Prime Minister Narendra Modi ji’s vision of creating and adopting open-source technologies. Start-ups, students, and entrepreneurs will play crucial roles in developing DIR-V-based chips and systems, ultimately contributing to India becoming a Semiconductor Nation,”

The Minister also highlighted how this program will ensure DIR V-based chips and systems are integrated into various digital products we use daily. “In the last 50 years, computer processors have evolved with many ideas, eventually settling on one main design that everyone adopts. Now, our focus is on the DIR-V program, envisioning a future where DIR V-based chips and systems are integrated into various digital products we use daily. India has also embraced RISC-V in flagship government projects, witnessing growth in startup research and innovation around RISC-V. India hosts several startups working on RISC-V-based designs, which are also part of MeitY’s futureDESIGN initiative.

The roadshow aimed to provide 1500 participants with valuable insights into the DIR-V VEGA series of processors and their ecosystem, covering both theoretical and practical aspects, including the use of development boards, SDK, and application development. Hands-on sessions were conducted using the ARIES development boards, which are Arduino-compatible.







❖ **India's Techade- Chips for Viksit Bharat Laying of the Foundation Stone of three Semiconductor Facilities in India by Shri Narendra Modi ji, Prime Minister of India On 13th March, 2024.**

Department of Electronics and Communication Engineering (ECE) under School of Engineering and Technology (SET) of University organized a momentous event of Laying out the foundation stone for setting up three Semiconductor Fabrication Facilities at Gujarat and Assam by Prime Minister, Shri Narendra Modi Ji.

The inauguration event at Mody University, commenced with an opening address by Dr. Rajeev Pourush, Head of ECE Department. He provided the comprehensive overview of India's Semiconductor Mission, emphasizing its significance in the context of technological advancement and national development. He also highlighted the importance of the event, shedding light on how the establishment of three semiconductor fabrication facilities would positively impact the ECE department in terms of enrollments and jobs creation.

This event was telecast live over youtube channel @NarendraModi across the globe. Honorable Prime Minister Shri NarendraModi laid the foundation stones for three crucial semiconductor projects: the Semiconductor Fabrication Facility at the Dholera Special Investment Region (DSIR) in

Gujarat, the Outsourced Semiconductor Assembly and Test (OSAT) facility in Morigaon, Assam, and another OSAT facility in Sanand, Gujarat. As a university we are encouraging the innovation and we take pride in our contribution to the nation's journey towards sustainable progress in the digital era.

The event was ended with a vote of thanks to students and faculty members who joined this event in online/offline mode.





❖ **A Workshop On Outcome Based Education (OBE)**

Workshop Title: *A Workshop on Outcome Based Education (OBE)*

Date: 22/03/24 (Friday)

Venue: IBM Lab, SET

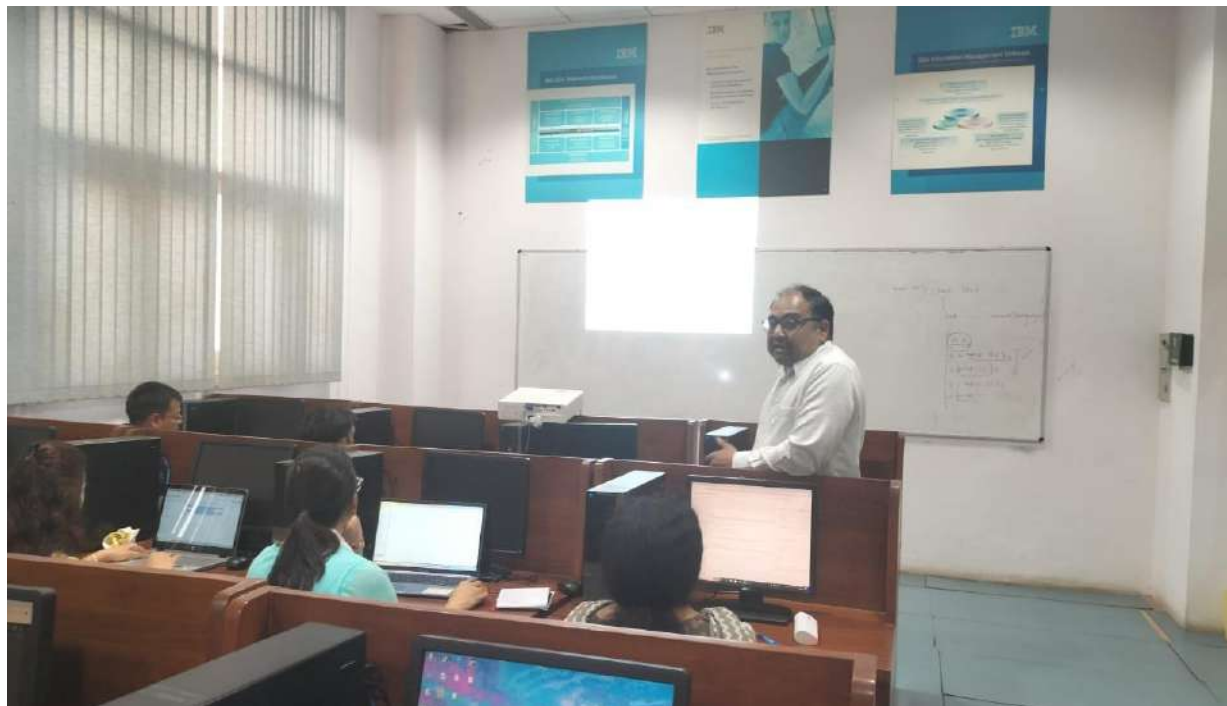
Resource Person: Dr. Rajeev Pourush, Head- Dept. of ECE, SET.

A workshop on Outcome Based Education was held on 22 March, 2024 in IBM Lab, School of Engineering and Technology (SET), from 11:30 AM onwards. The workshop was conducted by Dr. Rajeev Pourush, Head, Department of ECE. The faculty members of SET had participated in the workshop.

Objectives of Workshop

Following were the objectives of the workshops:

1. To elucidate the fundamental principles of Outcome-Based Education.
2. To frame the course outcomes (CO) of the course according to Bloom's Taxonomy.
3. To analyze Mid-Term and End-Term Question Papers (QPA) based on the course outcomes of the respective course.
4. To assess the course based on its Question Paper Analysis and Course Outcomes to determine the level of CO attainment.
5. To align course outcomes (CO) with Programme Outcomes (PO) of the Engineering discipline and Programme Specific Outcomes (PSO) of the particular program to which the course belongs.
6. To evaluate the level of CO attainment in alignment with Programme Outcomes (PO) and Programme Specific Outcomes (PSO).
7. To assess the level of attainment of Programme Outcomes (PO) and Programme Specific Outcomes (PSO) for the course.



Dr. Rajeev Pourush addressed comprehensively about the methodology to fulfill the above objectives sequentially. The revised Bloom's Taxonomy was explained, emphasizing its significance in educational settings and providing a structured framework for categorizing educational objectives and learning outcomes into different cognitive domains. Furthermore, practical guidance was provided on framing course outcomes (CO) according to Bloom's Taxonomy, ensuring that the objectives of the course were clearly defined and reflected higher-order thinking skills.



The training also encompassed the analysis of Mid-Term and End-Term Question Papers (QPA) based on the course outcomes, as well as the alignment of CO with Programme Outcomes (PO) of the Engineering discipline and Programme Specific Outcomes (PSO) of the particular program.



Faculty members were trained to evaluate the attainment levels of CO, PO, and PSO for the specific course, enabling them to assess the effectiveness of their instructional strategies, assessment methods, and overall curriculum design.



Throughout the training, an emphasis was placed on empowering faculty members to enhance their proficiency in outcome-based education and equipping them with the knowledge and skills necessary to promote student learning and success effectively.



The workshop ended with vote of thanks to all the faculty members who were participated in workshop. Special thanks was given to Dr. Prateek Bhanti, Dean-SET, who provided the opportunity for conduction of the workshop.

FACULTY ACHIEVEMENTS:

- Dr. Jeetu Sharma (Counselor and Mentor) & Ms. Pavi (Chairperson , COMSOC), IEEE ComSoc Mody University of Science & Technology Student Branch Chapter (SBC) has been awarded US \$500 per the application you submitted for 2023-Q4 membership recruitment and retention efforts within your student branch chapter.
- Dr. Jeetu Sharma conducted as Regional Coordinator, Programme Committee two days hand-on Vega processor workshop during the PAN India National roadshow on DIR V VEGA processor held at fifteen regional venues from 17-18 November 2023 at Mody University.
- Dr. Jeetu Sharma, has participated in one day a Teacher-In-Service programme (TIPS) on "Application of IoT in Industrial Automation" organised by IEEE Delhi Section and Purnima University on 7th October 2023.

2.3 Department of Mechanical and Electrical Engineering

The Department of Mechanical and Electrical Engineering is involved in providing quality education at Undergraduate (UG), Post Graduate (PG) and Doctoral Levels. Board of Studies (BOS) and Academic Planning Committee (APC) regularly meets to decide the change in the structure of the syllabi and its contents as per the current needs.

➤ **Objectives**

- To churn out women mechanical engineer having competitive edge over others in the same profession in India and abroad.
- To churn out a few students for lifelong learning in mechanical engineering.
- To train a few students for entrepreneurship.

➤ **Short Term Goals of the Department**

- To achieve good results in the examinations.
- To place students in reputed industries.
- To develop state of the art laboratories.
- To depute faculty members for higher studies / trainings in India and abroad.
- Joint collaboration with reputed premier institutions and research organizations.
- To carry out good quality research work.
- To impart training in soft skills & personality development.

➤ **Long Term Goals of the Department**

- To establish the department as an ideal learning, teaching & research place in the world.
- To establish centres of excellence in various fields.
- To enhance Industry Institute interaction.
- To strive hard to meet the social, ecological and ethical.

➤ **DEPARTMENTAL ACTIVITIES**

❖ **CONTROLLING THE WINGS: A HANDS-ON WORKSHOP ON DRONES**

The Department of Mechanical Engineering, School of Engineering and Technology, Mody University, Lakshmangarh, Sikar (Raj.) has organized two days' workshop on **"Controlling the Wings: A Hands-on Workshop on Drones"** on **September 15-16, 2023** on the occasion of Engineers day. Dr. Rajeev Mathur, the director of Mody University of Science and Technology, Dr. Prateek Bhanti, the Dean of SET, Dr. Vikrant Sharma HOD (ME) and, Faculty Coordinators Dr. Mukeshwar Yadav and Mr. Mukul Paliwal were among the dignitaries present.

Dr. Gurdyal Singh and Dr. Gurmeet Singh, the Experts from Chitkara University, Punjab, expressed their enthusiasm for the workshop, stating, "Drones are transforming industries and pushing the boundaries of what's possible. This workshop represents a pivotal step in equipping our students and the broader community with the knowledge and skills to harness the potential of drones responsibly. The workshop aimed to demystify drones, promote responsible drone usage, explore the world of unmanned aerial vehicles and enhance the participants' understanding of their diverse applications.

Key highlights of the workshop included:

Comprehensive Learning Sessions: The workshop featured informative sessions covering the basics of drone technology, including drone components, flight dynamics, regulations, and safety measures. Participants gained insights into the principles of drone operation.

Hands-on Practical Experience: Attendees had the unique opportunity to get hands-on experience with a variety of drones. They learned how to pilot drones, perform basic maneuvers, and operate different types of drone equipment.

Real-world Applications: Experts demonstrated how drones are revolutionizing various industries, including agriculture, environmental monitoring, photography, and search and rescue. Participants were encouraged to envision potential applications within their respective fields.

Safety and Regulation: Safety was a top priority throughout the workshop. Presenters discussed responsible drone operation, adhering to local regulations, and ensuring the safety of both operators and the public.

Flying Demonstration:

- **Hovering:** Showing precise control to keep the drone in a stable position.
- **Autonomous:** Circling an object or point of interest while maintaining a consistent distance.
- **Flying at Different Altitudes:** Demonstrating the drone's capability to fly at varying heights.
- **Aerial Photography/Videography:** Capturing stunning aerial shots or videos.
- **Spaying:** Drones equipped with specialized spraying equipment that precisely target specific areas of a field.
- **Delivery:** A drone is loaded with the package container model that will be used to hold the items for delivery.

Q&A Sessions: The workshop included interactive Q&A sessions, allowing participants to address specific queries and seek guidance from the experts.

The workshop received overwhelming positive feedback from students, with many expressing their eagerness to continue exploring the world of drones and their applications.





❖ **WEBINAR talks By Prof. Ram Shivpuri**
Title: NUCLEAR TECHNOLOGY – CAREER OPTIONS



A webinar talk is delivered by Prof. Ram Shivpuri (Distinguished Professor, Department of Nuclear Science and Technology) entitled NUCLEAR TECHNOLOGY: CAREER OPTIONS, organized by the School of Engineering and Technology on 23rd April, 2024 (Tuesday) at 11 AM. The webinar commenced with an overview of the foundational principles of nuclear technology, outlining its significance in various sectors, including energy production, medicine, agriculture, and research. Professor Shivpuri's webinar offered an in-depth exploration of nuclear energy, covering fundamental concepts, advantages, safety protocols, and the burgeoning career landscape within the domain. With a focus on India's expanding nuclear projects and global energy dynamics. The webinar underscored the critical need for skilled manpower equipped with specialised training and expertise to ensure the safe and efficient operation of nuclear facilities. The discussion further delved into the significance of international collaborations in advancing nuclear technology, highlighting the importance of knowledge exchange and resource sharing among nations. Professor Shivpuri emphasised the role of strategic partnerships in fostering innovation and driving sustainable development in the nuclear energy sector. By addressing key themes such as safety, manpower requirements, global collaboration, and career opportunities, the webinar

empowered participants to navigate the complexities of the nuclear energy landscape with confidence and foresight. It served as a catalyst for fostering dialogue, innovation, and informed decision-making in the pursuit of a sustainable and resilient energy future.



Finally, the webinar provided invaluable insights into the diverse career options available to students aspiring to venture into the nuclear energy domain. From nuclear engineering and research to radiation safety and policy advocacy, participants gained a nuanced understanding of the rewarding career pathways awaiting them in this dynamic and evolving field. Participants gained a profound understanding of the multifaceted applications of nuclear technology and its pivotal role in addressing global challenges. This insightful session was attended by 30+ interested students, scholars, and faculty members. The students of grades XI and XII science at

Mody School attended this knowledgeable session with Professor Ram Shivpuri and enriched their knowledge about nuclear technology. I feel privileged to have the opportunity to moderate these webinar talks and to interact with Prof. Shivpuri and to interested audience. Finally, I would like to thank Prof. Prateek Bhanti (Dean School of Engineering and Technology), Dr. Vikrant Sharma (HOD, Mechanical Engineering Department), and university authority for providing constant support and necessary facilities to organize this successful events.

FACULTY ACHIEVEMENTS:

1. Dr. Subrat Jana received the Best Poster Presentation Award in International Conference INSIC-2023, Nuclear for Clean Energy Transition, December 12–15, 2023, at the DAE Convention Centre, Anushaktinagar, Mumbai, 400094, India.
2. Dr. Mukheshwar Yadav received Design Patent on Mnemonic Chair Published on 20/10/2023 bearing application no 384256-001.
3. Dr. Vikrant Sharma has delivered keynote speech entitled “MCDM-AHP Method and Sensitivity Analysis” at the 2nd International Conference on Recent Innovation in Engineering, Technology, Management and Research organized during 27th – 28th, February 2024 at Bal Krishna Institute of Technology, Ranpur, Kota Rajasthan.
4. Dr. Sunita Kumari attended One week Short Term Course on "Modeling and Simulation in Science and Engineering" held during February 19-23, 2024 jointly organized by the Department of Mathematics and Department of Electronics & Communication Engineering at MNIT Jaipur (Rajasthan).
5. Dr. Sunita Kumari Participated as a Session Chair in International Conference on “Application of Recent Technologies in Science, Engineering, Management for Societal and Industrial Development (ICASEM-2024)”, January 11-13, 2024

3. FACULTY PUBLICATIONS:

List of Publications (July 2023- June, 2024)

3.1 Journal Publications

1. A. Sharma, "Performance evaluation using throughput and latency of a blockchain-enabled patient-centric secure and privacy-preserving EHR based on IPFS," *Int. J. Grid and Utility Computing*, vol. –, 2024, doi: [10.1504/IJGUC.2024.136720](https://doi.org/10.1504/IJGUC.2024.136720).
2. M. K. Paliwal, "Machine learning predictive models for optimal design of photovoltaic/thermal collector with nanofluids based geothermal cooling," *Environ. Prog. Sustain. Energy*, vol. –, 2023, doi: [10.1002/ep.14131](https://doi.org/10.1002/ep.14131).
3. M. K. Paliwal, "A bibliometric and scientific mapping of the research landscape and trending topics in building integrated photovoltaic systems," *Sol. Energy*, vol. –, 2024, doi: [10.1016/j.solener.2023.112202](https://doi.org/10.1016/j.solener.2023.112202).
4. V. Sharma, "Study of green manufacturing practices through survey-ordinal regression analysis and development of theoretical framework for Ethiopian manufacturing industries," *Int. J. Math. Oper. Res.*, vol. –, 2023, doi: [10.1504/ijmor.2022.10048538](https://doi.org/10.1504/ijmor.2022.10048538).
5. V. Sharma, "Implementation framework for cellular manufacturing system using BWM multi-criteria decision making," *Int. J. Process Manag. Benchmarking*, vol. –, 2023, doi: [10.1504/ijpmb.2022.10045860](https://doi.org/10.1504/ijpmb.2022.10045860).
6. V. Sharma, "A principal component analysis for barriers to cellular manufacturing system implementation in manufacturing industries," *Int. J. Process Manag. Benchmarking*, vol. –, 2023, doi: [10.1504/IJPMB.2023.132237](https://doi.org/10.1504/IJPMB.2023.132237).
7. V. Sharma, "An assessment on the manufacturing environment using the grey relational analysis method," *REST J. Emerg. Trends Model. Manuf.*, vol. –, 2023, doi: [10.46632/jemm/9/3/1](https://doi.org/10.46632/jemm/9/3/1).
8. V. Sharma, "A review on material selection for small wind turbine blades using the WASPAS method," *J. Adv. Mech. Eng.*, vol. –, 2023, doi: [10.46632/jame/2/3/1](https://doi.org/10.46632/jame/2/3/1).
9. V. Sharma, "Green manufacturing practices: a bibliometric and thematic analysis," *Int. J. Bibliometrics Bus. Manag.*, vol. –, 2023, doi: [10.1504/ijbbm.2023.134439](https://doi.org/10.1504/ijbbm.2023.134439).
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[10.31181/rme040117112023s](https://doi.org/10.31181/rme040117112023s).

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12. S. Kumari, "Comprehensive review on solar powered smart irrigation system," *Int. J. Electr. Eng. Technol. (IJEET)*, vol. –, 2024, available: https://iaeme.com/Home/article_id/IJEET_15_02_001.
13. V. Maan, "An efficient methodology for brain tumor segmentation and detection using K-means clustering and fine-tuned EfficientNet model," *Scope*, vol. –, 2023.
14. V. Maan, "Optimizing emotions recognition of non-intrusive Ewalking dataset," *Data and Metadata*, vol. –, 2023, doi: [10.56294/dm2023162](https://doi.org/10.56294/dm2023162).
15. A. Maharshi, "On reduction of large condition number of coefficient matrix for solution of system of simultaneous linear equations," *Mods Univ. Int. J. Comput. Eng. Res.*, vol. 7, no. 1, 2023, available: [Google Drive](#).
16. V. Raina, "Artificial intelligence-enabled deep learning model for multimodal biometric fusion," *Multimedia Tools Appl.*, vol. –, 2024, doi: [10.1007/s11042-024-18509-0](https://doi.org/10.1007/s11042-024-18509-0).
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19. J. Sharma, "Supply chain dynamics with sensor integration for consumer electronics in retail and e-commerce," *IEEE Trans. Consum. Electron.*, vol. –, 2024, doi: [10.1109/TCE.2024.3373259](https://doi.org/10.1109/TCE.2024.3373259).
20. M. Mohanta, "An overview of novel drug delivery systems for cardiovascular diseases application," *Curr. Appl. Mater.*, vol. –, 2024, doi: [10.2174/0126667312310564240719053625](https://doi.org/10.2174/0126667312310564240719053625).
21. M. Mohanta, "An overview of polymer-based-bioresorbable drug-eluting stents," *Innov. Emerg. Technol.*, vol. –, 2024, doi: [10.1142/S2737599424300022](https://doi.org/10.1142/S2737599424300022).

22. R. S. Rathore, "Effect of multi-fin with independent LER on intrinsic statistical variability sources," *Int. J. Electr. Electron. Eng. Telecommun.*, vol. –, 2023, doi: 10.18178/ijeetc.12.5.358-362.
23. A. Anita, "Triple Dirichlet Average of Generalized K-Wright Type Function and Fractional Derivative," *J. Emerg. Technol. Innov. Res.*, vol. –, 2024, available: www.jetir.org.
24. R. Yadav, "Integration of complex mathematical approaches and statistical methodologies in machine learning for design of robust predication models," *Commun. Appl. Nonlinear Anal.*, vol. –, 2024, doi: [10.52783/cana.v31.572](https://doi.org/10.52783/cana.v31.572).
25. S. Patwa, "Quantum error correction on cryptography," *J. Comput. Technol. Appl.*, vol. –, 2024, available: [STM Journals](http://STMJournals.com).
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27. V. Maan, "Enhanced brain tumor segmentation and size estimation in MRI samples using hybrid optimization," *Data & Metadata*, vol. –, 2024, doi: 10.56294/dm2024408.
28. A. Kajala, "Deciphering breast cancer survival: An in-depth analysis of predictive factors using exploratory data analysis," *Afr. J. Biol. Sci.*, vol. –, 2024, doi: 10.33472/AFJBS.6.6.2024.1021-1037.
29. D. L. Punia, "Review and analysis on optimization and scheduling of EV charging," *World Electr. Veh. J.*, vol. –, 2024, available: <https://www.mdpi.com>.
30. R. Soni, "Optimize multiple route discovery for MANET using energy and velocity constraint," *Int. J. Comput. Organ. Trends*, vol. –, 2024, doi: [10.14445/22492593/IJCOT-V14I1P303](https://doi.org/10.14445/22492593/IJCOT-V14I1P303).

3.2 Conference Papers

1. A. Sharma, "Artificial Intelligence Based Cyber Security for Nuclear Power Plants," in *Proc. Int. Conf. on Advances in Science, Engineering and Management (ICASEM)*, 2024, ISBN: 978-93-5967-832-0.
2. A. Sharma, "Semantic Review of Artificial Intelligence Architectures in Drug Discovery," in *Proc. Int. Conf. on Power, Energy, and Intelligent Systems (PEIS)*, 2023, 2024, ISBN:

978-981-99-7383-5.

3. A. Sharma, "A Genetic Algorithm Approach for Portfolio Optimization," in *Proc. Int. Conf. on Data Science and Applications (ICDSA)*, 2023, 2024, ISBN: 978-981-99-7862-5.
4. V. Kumar, "Handling Intrinsic Difficulties in the Identification of Lumpy Skin Disease Virus (LSDV) Using Optimization Techniques Based on Deep Learning," in *Proc. Int. Conf. on Advances in Science, Engineering and Management (ICASEM)*, 2024, ISBN: 978-93-5967-832-0.
5. R. S. Rathore, "Analysis of Source-and-Drain Doping for the Underlapped FinFET," in *Proc. IEEE Int. Conf. on Omni-layer Intelligent Systems (COINS)*, London, U.K., 2024, ISBN: 979-8-3503-4959-7.
6. V. Maan, "Brain Tumor Classification of MRI Scans Using Deep Learning Techniques," in *Proc. 2024 Int. Conf. on Communication, Computer Sciences and Engineering (IC3SE)*, 2024, DOI: 10.1109/IC3SE62002.2024.10593086.
7. P. K. Bishnoi, "Predicting the Future Cloud Providers and Most Popular Services by Machine Learning Algorithms," in *Proc. Int. Conf. on Application of Recent Technologies in Science, Engineering Management for Societal and Industrial Development*, 2024, ISBN: 978-93-5967-832-0.
8. P. K. Bishnoi, "Smart Locking System," in *Proc. Int. Conf. on Application of Recent Technologies in Science, Engineering Management for Societal and Industrial Development*, 2024, ISBN: 978-93-5967-832-0.

4. PROFESSIONAL SOCIETIES

4.1 CSI Lakshmangarh Chapter



Activities:

- ❖ **56th Engineer's Day and 6th year of CSI Lakshmangarh Chapter Celebration @ Mody University of Science and Technology, Lakshmangarh (15th September, 2023)**

On the occasion of Engineer's Day, i.e., 15th September 2023, which is celebrated as the birth anniversary of Sir Mokshagundam Visvesvaraya, an orientation program was organized by CSI Student Branch - Utkarsh, at the School of Engineering and Technology, Mody University of Science and Technology, Lakshmangarh.

The orientation event began with Saraswati Vandana followed by Kulgeet of Mody University. Dr. Rajeev Mathur, the director of Mody University of Science and Technology, Dr. Prateek Bhanti, the dean of SET, and Dr. Anand Sharma, Faculty Coordinator were among the dignitaries present.

After the Kulgeet, Dean-SET, Dr. Prateek Bhanti, inspired the students with his motivating words. And then, Dr. Rajeev Mathur, Director of Mody University of Science and Technology, addressed the students with his knowledge and experience. His encouraging words instilled a great zeal of enthusiasm among the students.



The orientation commenced with a briefing about CSI Student Branch - Utkarsh. The orientation gave information about CSI and its student branch - Utkarsh. There was a presentation which showcased how the student branch of CSI works to connect tech enthusiasts and help them grow. The orientation provided an overview of the different annual events that the society

organizes and its internal events for its members. The orientation was wrapped up with some fun games.



After the orientation, Career Nexus: Placement talk, which was conducted by Ms. Divyata Gehlot, Ms. Nivedita Vyas, and Ms. Vaidehi Purohit. It began with a brief explanation on the process of being placed. The workshop's main objectives were to enhance management skills.

The speakers explained how to balance your life with both academics and co-curricular. They also briefed us about how to improve your interview skills, do's and don'ts while giving an interview, networking opportunities, and career planning, while living your college life too. They also shared their experiences which was a great way to boost confidence and make people aware of their potential.



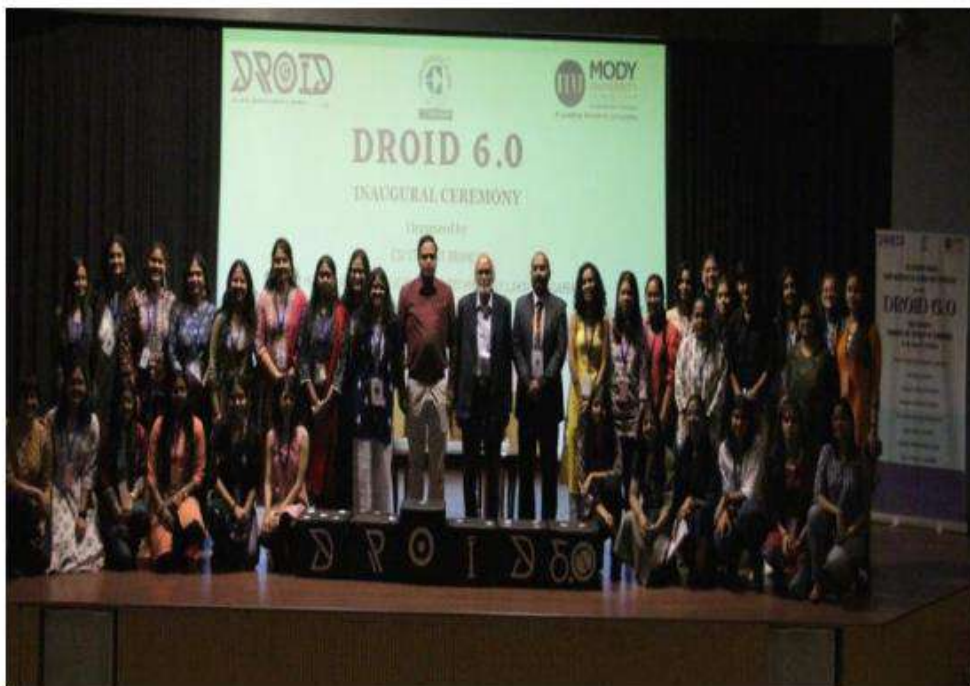
Overall, the celebration and orientation programme was a huge success and a fantastic way to introduce everyone to the Computer Society of India.



DROID 6.0

❖ CSI Student Branch, Mody University of Science and Technology, Lakshmangarh

CSI Student Branch, MUST, Lakshmangarh organized an annual tech-cult fest DROID 6.0 from 5th April 2024 to 6th April 2024 at School of Engineering and Technology, Mody University of Science and Technology, Lakshmangarh. The annual annual tech-cult fest was the 6th version of the DROID series. On 5th and 6th of April, it was held on campus for offline participants as well as for remote participants. The theme of the Droid 6.0 was “TECH ODYSSEY-Encoding the Tapestry of Tomorrow”, which consisted of 12+ events such as Cloud-Computing workshop, Paper Presentation, Web-Dev Derby, Innovation Sprint, Group Discussion, Wordsworth, Mock Recruitment, Code Clash, Pinnacle Plays, Spree Corner, 60 seconds of fame and Fiesta. The event was a major success, with 300+ participants from inside and outside Mody University. The 2-day event was commenced with an inaugural ceremony. The dignitaries present were, The Chief Guest: Dr. Govind Sharma, Registered Patent Agent, Alumni of Delhi University, Prof. (Dr.) Anil Saroliya, Dean Academics, Mody University of Science and Technology, Prof. (Dr.) Prateek Bhanti, Dean, School of Engineering and Technology and Dr. Anand Sharma, SBC - CSI Student Branch, MUST. Dr. Govind Sharma has been an integral part of the National Research Development Corporation (NRDC), a cornerstone organization operating under the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India. His contributions have been instrumental in implementing impactful projects in collaboration with renowned organizations such as UNESCO and UNICEF. He inspired the students with his influential presence and advised them for achieving their aim without losing moral values.



The first day's events began with a keynote lecture hosted by Dr Sameer and Dr Sandeep Jaiswal and it was followed up by a workshop on “Cloud-Computing” where Mr. Ayushman Jha and Mr. Ashutosh Singhal introduced the participants to the very basics of cloud computing and then delved deeper into its uses, importance and more. The students found the keynote lecture and the workshop to be very beneficial, and each one received a certification.

This event proceeded with the next event of the day which was a group discussion where participants showcased their skills. The event was led beautifully by Initiator Ms. Purvanshi Bhatnagar, Moderator Ms. Daisy Vyas and Concluder Ms. Siddhi Sankhala. Concurrent to this event, another workshop was being held.



Parallel to this event, first round of Mock Recruitment was started. It was a placement drive for students to practice and develop themselves into the environment of different company interviews. Another fun event which was Spree Corner was held throughout the 2-day fest. It was for the participants to showcase their skills and talents in a variety of artistic medium and can earn from the same. This event became the major success of the 2-day tech fest. Fun event – Treasure Hunt that ran concurrently with Mock Recruitment, in which a clue was given to each team and the team

which solved all the clues was declared as the winner. Day 1 ended on a high note with the entertaining event which was Foray – A Fashion Show, which was conducted by SOD, MUST, Lakshmangarh.

The day-2 started with the event, a dynamic coding competition where the participants had to tackle challenges within set time limits. The winner of the event was Ms. Akansha Sharma, 1st Runner Up was Ms. Kratika Goel and the 2nd Runner Up was Ms. Priyal Jain, who won cash prizes and certificates.

This was preceded by Paper Presentations in which students presented their research papers based on their technical skills, purpose, and creativity. The winner of the event was Brainiacs, they won a cash prize and a certificate. After this, a brain teasing event Pinnacle Plays and Wordsworth commenced consecutively, where former offered a diverse range of games, and latte offered competition on who is the fastest to guess the words. These were interesting and fun events.





After this, another event Web Dev Derby started, which was a website designing competition for students to showcase their creativity skills by highlighting their expertise on certain topics. The winner for this event was team Webezz, 1st Runner Up was team Tycho Brahe, and 2nd Runner Up was team Latika. Each of the winners won cash prizes and a certification of achievement. Similarly, the Innovation Sprint was another event which was being held concurrently where participants demonstrated their ability to efficiently solve problems presented to them on the spot. The winners of this event were team Sigma, and the 1st runner-up was team Ascend, both teams won cash prizes and more accordingly. Correspondingly, the final round of Mock Recruitment was also being held, the participants were notified the day before and they came fully prepared for their interviews, the participants that performed brilliantly were Ms. Suruchi Suman who was the winner and Ms. Vania Singh who was the 1st runner-up, both these winners received guidance, cash prizes and more.

On Day 2, the Valedictory session was held, during which the core concepts and ethos of DROID 6.0 were presented and briefly discussed for potential future applications. Following this, all competitors were awarded participation certificates, while the winners received certificates along with monetary prizes. Overall, DROID 6.0 stood as a remarkable achievement, offering a valuable opportunity for learning and growth through both knowledge and competition.



Immediately after the Valedictory, the last event of Day 2 commenced: the "60 Seconds of Fame." Here, participants had the chance to showcase their talents, whether it be in dancing, singing, acting, or any other skill, all within the span of one minute.



4.2 IEEE STUDENT BRANCH, MUST



ACTIVITIES:

❖ Let's Explore Xtreme: An awareness program

To explore new horizons and guide students towards excellence, a session “Let's Explore Xtreme” was organized by IEEE SB MUST on August 7th, 2023, from 9:30 pm onwards via Google Meet Platform, offering an opportunity to delve into the insights of IEEE Xtreme 17.0. It was hosted by Ms. Ananya - IEEE Xtreme 17.0 Delhi Section Lead and Ms. Vasudha - IEEE Xtreme 17.0 Ambassador IEEE SB MUST.

The purpose of the meeting was to provide awareness of the 24-hour coding competition and facilitate the participation process for student members. IEEE Xtreme is an annual global competitive programming challenge organised by the IEEE. It aims to assess participants' problem-solving, coding, and teamwork skills within a specified time frame.

Key details discussed during the meeting included:

1. Competition Format:

- Duration: The competition lasts for 24 hours.
- Programming Languages: Participants can use over 25 major programming languages.
- Scoring: Correct answers are awarded 30 points each. Additional 70 points can be earned based on the difficulty of the tasks.

2. Team Composition:

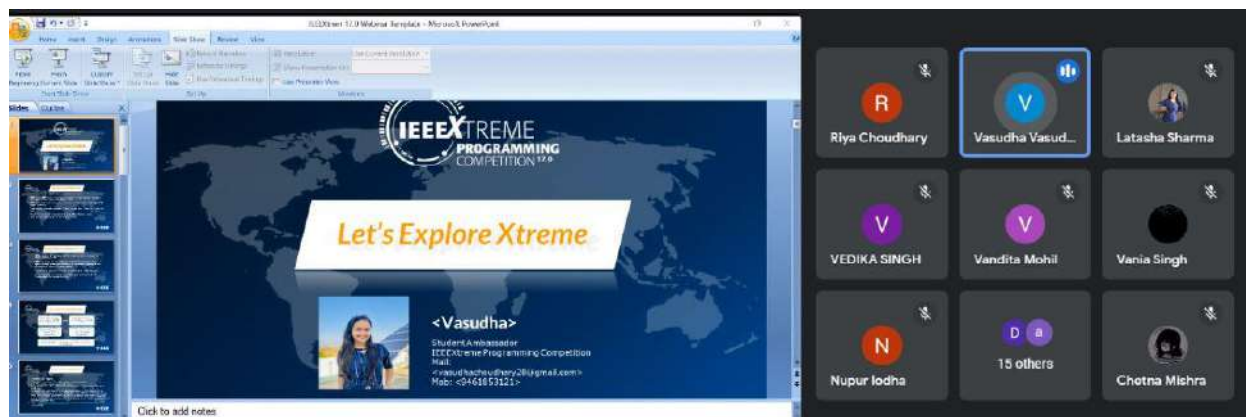
- Teams can be composed of the following:

- Maximum of 3 Student Members (SM)
- Maximum of 2 Graduate Student Members (GSM) and 1 Student Member (SM)
- Maximum of 2 Student Members (SM) and 1 Graduate Student Member (GSM) & a Proctor
- Only 2 GSMs are allowed per team.

3. Important Dates:

- Registration Start Date: August 1, 2023
- Registration End Date: October 7, 2023
- Competition Date: October 28, 2023
- Official Result Date: Results will be announced within 4-5 weeks after the competition.

Participating in the IEEEExtreme programming competition offers a unique chance for students to grow their technical skills and gain exposure to the global coding community. The event also serves as a platform for students to connect with other participants and professionals in the field of computer science and engineering. It can be a valuable experience for those interested in honing their programming skills, preparing for technical job interviews, and networking with like-minded individuals.





❖ IEEE Orientation '23

On September 8, 2023, an orientation program was held in ABB 01 at 4:30 pm for the batch 2027. During this event, students received a formal welcome and were introduced to the IEEE organization and its global, regional, section, and student branch operations.

The orientation began with a speech by Dr. Jeetu Sharma, the Counsellor of the IEEE Student Branch, at Mody University of Science and Technology. She provided the students with her guidance regarding the IEEE student membership and its benefits, she also encouraged them to think wisely before choosing any society as it plays an important role in their knowledge and development.

The orientation event was skillfully moderated by Ms. Nupur Lodha and Ms. Archita Kadambia, commencing with a captivating opening session that provided attendees with valuable insights into several key aspects of IEEE and gave a comprehensive introduction to the operational committees for the year 2023-24, effectively acquainting attendees with the various committees and their respective leaders and co-leaders.

The Executive Committee of IEEE recognized and honored the dedication and hard work of its members by presenting the following awards:

- Rising Star Volunteer Award - Ms. Anshika Yadav
- Exceptional Student Volunteer Award - Ms. Vedika Singh
- Leadership Excellence Award - Ms. Ananya Singh
- Team Excellence Award - Graphic Designing Team

Following the awards ceremony, the main members of the Executive Committee delivered speeches and they shared their personal experiences within IEEE and highlighted how the organization had been instrumental in shaping their growth and aiding them in the achievement of their goals.

The event also featured a delightful and interactive game round that added a touch of fun and engagement wherein the attendees participated in a logo guessing game where they had to identify logos displayed on the screen. For every correct answer, the winner received a tasty chocolate reward, adding an element of excitement and friendly competition to the gathering.

The conclusion of the orientation program for 2023 was marked by two significant highlights. Firstly, about the upcoming IEEE Young Professional Chapter, and secondly, the orientation closed with an introduction to the IEEE website, providing attendees with essential resources and information for their future engagement with IEEE.

Overall, the orientation program was a resounding success, and the society anticipates a substantial number of students eagerly joining the society, further enriching the community and contributing to its vibrant future.



❖ QUIZTECH 4.0

IEEE SB MUST held its annual flagship event, QuizTech 4.0, at ABB 01 on September 20th, 2023 from 4:30 p.m. QuizTech is a recurring technical quiz event, marking the initiation of the tenure.

The event was graced by the presence of the Chairperson, Ritika Malik, while Vandita Mohil and Aradhna Aggarwal led the proceedings. Moderation duties were carried out by Vanshika Gupta, Shreya Saxena, Arushi Singhal, and Palki Rathore. The event commenced with a brief interaction with the participants. It featured three main rounds, with two enjoyable intermission rounds for participant engagement. These intermission rounds were centered on themes from "Stranger Things" and "The Vampire Diaries."

The first round, "Hunt It Out," was a Google form quiz with 20 questions. The top 16 participants from this round advanced to the next stage. Following this, the "TVD Trivia" fun round was held on the Mentimeter platform, featuring 25 questions.

The second primary round, "Game Changers," involved participants being divided into teams of 8 individuals. Each team had 30 seconds to answer questions, with the winning team's members progressing to the next round. Another entertaining intermission round followed, titled "Are you a stranger?" and was similar in format to the previous one.

The final round, "Ready, Set, Answer!" was a buzzer round where the winning team's members competed against each other. Participants had 10 seconds to press the buzzer.

The closing ceremony began with an address from Ritika Malik and Shruti Agrawal to the audience and participants. This was followed by expressions of gratitude from the event leads. The most anticipated moment arrived as the winners were announced, and they were presented with certificates and gifts. Winners from the fun rounds were also recognized and rewarded.

The event witnessed active and enthusiastic participation, fostering a sense of enjoyment, learning, and networking among all attendees. Its success was attributed to the active involvement of participants and the audience, as well as the dedicated teamwork of the organizing committee members.



❖ IEEE Day Celebration 2023

On October 17th, 2023, the inaugural ceremony of IEEE Day marked the commencement of a three-day celebration dedicated to innovation and technology. This remarkable event unfolded at the esteemed Swami Ramtanu Pandey Tansen Sabhagar (Mini Auditorium) and was expertly organized by the IEEE Student Branch Mody University of Science and Technology, in collaboration with the IEEE Student Branch BITS PILANI.

190 students were participated in the 3 days Celebration. The event commenced with a warm welcome extended to all attendees, highlighting the pivotal role of IEEE Day in fostering collaboration and knowledge sharing within the technology community. Dr. Prateek Bhanti, Dean of the School of Engineering and Technology (SET), offered insightful viewpoints on the significance of IEEE Day and its impact on the advancement of technology. He underscored how this celebration provides a unique platform for students and professionals to come together, share ideas, and contribute to technological progress.

Branch Counselor of the IEEE Student Branch Mody University, Dr. Jeetu Sharma, took the stage. She elaborated on the essential role of IEEE SB MUST and the importance of students actively engaging in the IEEE society.

In a separate insightful speech, Dr. Anand Sharma, the Faculty Advisor for the IEEE Computer Society Chapter, shed light on the significant role played by the IEEE Computer Society in advancing the fields of computer science and technology.

The following events were conducted under IEEE Day 2023.

❖ **CodeChase- Flag Edition**

The event unfolded with a magnificent grand opening ceremony that set the stage for an exciting and intellectually stimulating competition known as CodeChase- Flag Edition. It was held on 17th October 2023 at the esteemed Swami Ramtanu Pandey Tansen Sabhagar (Mini Auditorium) and was specifically designed to offer more than 150 participants a competitive environment where they could showcase their coding skills and problem-solving abilities.

Leading the event with professionalism and enthusiasm were the two distinguished moderators, Ms. Aishna Birla and Ms. Disha Mathur. Their primary role was to acquaint the audience with the intricacies of the game and ensure that everyone comprehended the rules and regulations that would govern the competition.

The game kicked off with its initial round, which revolved around the intriguing task of deciphering hints and riddles to locate concealed flags within the provided problem statements. The catch here was that participants needed to format the flags exactly in the pattern of "IEEE_DAY_CS {answer}," which was exemplified as "IEEE_DAY_CS{ffgh_@_5&+efggghh4178}."

Participants were given a mere 90 seconds to read the problem statement and a limited span of 5 minutes to capture the elusive flag. After this intense 5-minute period, a QR code for a Google form was displayed on the screen. Participants were then required to diligently submit the flags they found using the provided Google form within the stipulated time frame.

From the first round of the competition, a select group of 18 participants were chosen to move on to the next stage. This next stage was none other than a demanding coding round. Here, the top 3 contestants from each Capture the Flag (CTF) Challenge secured their positions, earning them the opportunity to participate in the highly competitive coding contest.

Within a tight time frame of 30 minutes, they were tasked with solving two intricate coding problems. The top 3 winners of the coding contest were assessed based on three key criteria:

- Correctness of their code solutions.
- The time of submission.
- The approach they followed in solving the coding problems.

Ultimately, after a tough competition, three participants emerged as the frontrunners and were crowned as the finalists of the event. These outstanding individuals are:

1st place: Ms. Akansha Kumari

2nd place: Ms. Gunjan Aggarwal

3rd place: Ms. Mahak Agarwal

Their dedication, skill, and innovative problem-solving abilities allowed them to secure these top positions. This event would not have been a success without the enthusiastic participation of all contestants, and it showcased the incredible potential and talent within the coding community. We congratulate the winners and extend our gratitude to all participants for their enthusiasm and commitment to making CodeChase- Flag Edition an unforgettable and resounding success!





❖ **Cluster Craft workshop**

IEEE SB MUST held three-day celebrations on the occasion of IEEE Day, and the first day had spirits high among the attendees. The second last event for the day was the session by our collaborator IEEE Birla Institute of Technology and Science, Pilani student branch. The event was held on Tuesday, 17th October 2023, in the Mini Auditorium from 2:30 p.m. to 4:30 p.m. with a turnover of more than 150 attendees.

K-means clustering is a popular algorithm of unsupervised machine learning for partitioning a dataset into K distinct, non-overlapping subsets (clusters). The goal is to minimise the within-cluster sum of squares (WCSS), also known as inertia, which measures the compactness of clusters. The WCSS event in K-means is crucial as it helps identify the optimal number of collections. K-means clustering, coupled with WCSS analysis, is a powerful technique for grouping data points into clusters, aiding in pattern recognition and data segmentation.

IEEE BITS PILANI brought a Cluster Craft workshop with a fantastic decrypting challenge. It was a distinguished and appreciable hands-on workshop by the delegates from the IEEE student branch Birla Institute of Technology and Science, Pilani. The hands-on workshop was an immersive

experience where participants actively engaged in practical activities related to the K-Means and WCSS. Through a series of guided exercises, attendees gained valuable skills and applied theoretical concepts in a real-world context. The workshop covered key topics such as K-Means and WCSS, allowing participants to work collaboratively and troubleshoot challenges. The event centered on k-means clustering and within-cluster sum of squares (WCSS). Attendees delved into the intricacies of the k-means algorithm, discussing how it partitions data into clusters based on similarity. WCSS, a crucial metric, was explored.



❖ Motivational Session by Mr. Arsh Goyal

IEEE SB MUST held three-day celebrations on the occasion of IEEE Day, and the first day ended with great enthusiasm among the attendees. The last event for the day was Mr. Arsh Goyal's session. The event was held on Tuesday, 17th October 2023, in Mini Auditorium from 4:30 pm to 6:00 pm with a turnover of more than 150 attendees.

Mr. Arsh Goyal is a well-known speaker and a Senior Software Engineer at Samsung. He excelled in his academic journey, earning a Gold Medal at NIT Jalandhar while pursuing a B.Tech in Electronics and Communication. In addition to his role at Samsung, he also shares his knowledge as an educator on the Unacademy platform. Mr. Goyal has a background with organizations like

ISRO and Codechef. The event was skillfully moderated by Ms. Riya Chaudhary, who serves as the Secretary at IEEE Student Branch, Mody University of Science and Technology.

The technical speaker session by Mr. Arsh Goyal brought together an audience of tech enthusiasts, professionals, and students' eager to delve into the field of technology and build a career for themselves. The talk was very helpful. Mr. Goyal shared tips on managing time and studying effectively. He had the audience close their eyes and think about why they started their learning journey, which was inspiring. He encouraged everyone to practice what they learn and made the session interactive. By sharing his own experiences, he motivated many to create a routine that includes learning, practice, and consistency.



❖ Session by Mr. Yogesh Saini CEO of Cyberous

The second event of IEEE Day 2, featuring Mr. Yogesh Saini, CEO of Cyberous, was held on 18th Oct 2023 at the esteemed Swami Ramtanu Pandey Tansen Sabhagar (Mini Auditorium) and had a remarkable turnout of 190 attendees. The event was organized by IEEE SB MUST in collaboration with IEEE BITS PILANI and was hosted by Ms. Abhigya Sharma and Ms. Esha Mathur. With over seven years of experience, including providing training to the Indian Navy, Mr. Saini's expertise in cybersecurity was highly anticipated. His recognition as one of the top 10 leaders in the Jaipur startup scene in 2022, as featured in CEO Insights magazine, further underscored his credibility as a speaker.

Mr. Saini's presentation was a dynamic exploration of cybersecurity and hacking activities, offering valuable insights into this crucial field. The audience gained a comprehensive understanding through the following key points:

The audience received practical guidance on how to initiate a career in cybersecurity and develop a keen interest in this field. Mr. Saini provided valuable tips and resources to help aspiring professionals take their first steps.

Attendees were enlightened about national security threats and the effective measures that can be taken to prevent them. This discussion underlined the significant role of cybersecurity within the broader context of security concerns.

To provide a practical understanding of the subject, Mr. Saini conducted live demonstrations. These included mobile hacking using an audience member's phone, website hacking, and techniques for altering the content of a website.



❖ Research Roadmap Talk

The IEEE Day 3 celebration held on 19th October 2023 was hosted by Ms. Hiyanshi Jain and Ms. Arushi Singhal. The event was held at ABB 01 and was attended by 100 attendees, marking a significant milestone as it hosted a compelling session on Research Roadmap, delivered by the esteemed Dr. Rituraj Rathore. With a postdoctoral degree from the prestigious University of KwaZulu-Natal, Dr. Rathore possesses extensive expertise in the realms of Microelectronics and Nanoscale devices. His educational journey is a testament to his commitment to the field, having

earned master's and Ph.D. degrees in VLSI Design & Automation Technique from the National Institute of Technology-Hamirpur (India) in 2010 and 2018, respectively, in addition to a bachelor's degree in Electronics and Communication Engineering from the University of Rajasthan (India) in 2007.

Boasting more than 12 years of teaching and research experience, Dr. Rathore's contributions to academia and research are noteworthy. As an active member of IEEE, he has authored and co-authored over 20 research publications featured in esteemed international journals, including those indexed in Do HET, SCI, SCI-E, and SCOPUS, with Q1 & Q2 rankings. He has also made significant contributions to various symposiums and conferences.

Currently, Dr. Rathore serves as an Assistant Professor in the department of Electronics & Communication Engineering at Mody University, Laxmangarh (Sikar). His specialization in VLSI Design and Automation Techniques makes his insights on research invaluable to both students and peers alike.

When it comes to writing a research report, Dr. Rathore placed great emphasis on maintaining a structured and organized approach. This involves adhering to a well-defined framework that encompasses the introduction, methods, results, and conclusion. He underscored the necessity of using clear and concise language to effectively communicate research findings. Proper citation methods, such as APA or MLA, were highlighted as crucial elements for maintaining research credibility.



The incredible three-day IEEE Day Celebrations kicked off with an electrifying blast at the IEEE Student Branch at Mody University of Science and Technology. Victory Vortex - The Sports Extravaganza - unleashed on the bright morning of November 18, 2023— an exhilarating event that filled the air with laughter, joy, and unbridled enthusiasm.

The Victory Vortex was a rollercoaster of entertainment, where participants took on thrilling challenges step by step, all while showcasing their remarkable team spirit. Guided by the amazing duo of Ms. Nupur Lodha and Ms. Vanshika Sharma, the Organizing Committee not only exhibited flawless management skills but also injected a surge of energy into the atmosphere, leaving everyone buzzing with excitement. Participants congregated on the hockey ground, forming teams of 6, ready to take on whatever surprises Victory Vortex had in store for them. A total of eight teams emerged to engage in this epic sporting showdown, their anticipation growing with each moment.

Victory Vortex unfolded as a series of mind-bending and hilarious tasks. In the 'Ribbon Sprint,' participants tied ribbons around their waists, simulating tails, and raced from one point to another without letting the ribbons touch the ground or using their hands. It was an exhilarating first round, with ribbons flying as participants dashed forward. The excitement didn't stop there; the 'Backward Relay' followed, where the next runner had to sprint backward from the second point to the third. Then came the 'Skipping Rope Relay,' where the third team member had to skip their way to the fourth checkpoint. The 'Balloon Race' was a delightful pair challenge, with the next two team members holding a balloon as they journeyed from the fourth to the fifth checkpoint. In the 'Hula Hoop Race,' participants swirled hula hoops around their waists on their way from the fifth to the sixth checkpoint. The heart-pounding 'Bottle Game' kicked off at the sixth checkpoint, with the sixth team member flipping a water bottle to land it upright on a table. Once the bottle was upright, it was time for the 'Throwing Rings over the logo' round. The final stage was all about landing a ring toss on the IEEE Day Logo to claim victory.

The event was a resounding success, brimming with exhilaration, laughter, and jubilation. The first four teams competed fiercely, followed by the next four, and the top four advanced to the next round. The stakes were raised as the ribbon's length increased, and in the end, Team 1, featuring Ms. Priyanka, Ms. Akanksha, Ms. Kiran, Ms. Sheetal, Ms. Shivangi Chandra, and Ms. Tanvi Singh, emerged as the triumphant champions. The excitement reached its zenith with a thrilling Tug-of-war among the students, bringing 'Victory Vortex' to a joyous conclusion.

❖ **Connecting The Dot event**

IEEE SB MUST held three-day celebrations on the occasion of IEEE Day. The third day unfolded with the Connecting the Dot event. It aimed to bridge the generational gap. The event was held on Thursday, 19th October 2023, in Mini Auditorium from 11:30 am to 12:30 am.

The teachers' panel included Dr. Anirben Sengupta, Dean School of Business (SOB); Dr. Ekta Singh, Dean School of Design (SOD); Dr. Jitendra Binwal, Dean School of Liberal Arts and Sciences (SLAS) and Ms. Shanu Ora, Principal School of Etiquette and Finishing Skills (SEFS).

Both panels shared their opinions and viewpoints about the particular questions that were asked by the moderators. The event was very insightful, and a deep, detailed, engaging, and extensive conversation occurred. Both panels had valid and fair thoughts. The questions revolved around the different ideologies and differences in mindset of both generations. It emphasized how the same situation looks from a student's point of view and from a teacher's or parent's point of view. Both generations got to know and understand the other age better and learn more about their thinking process.

The panellists acknowledged the fact that each generation has a unique way of thinking and has a different set of experiences and unique values. The communication barrier was also discussed as how misunderstandings, misinterpretation, and miscommunication exist among generations and age. The panellists also discussed the family dynamics and the effect due to the generational gap briefly during the event.

The panel discussion concluded by encouraging attendees to embrace the diversity of perspectives across generations and actively seek learning. By understanding and appreciating the unique contributions of each generation, the hope is to build bridges that foster unity, strengthen communities, and create a more harmonious society that benefits from the collective wisdom of all age groups.



❖ **Family Feud**

On a delightful day of 18th October filled with warmth and excitement, an engaging Family Feud game took place in the Mini Auditorium from 2.30 p.m. onwards, welcoming both familiar and new participants. With the anticipation of friendly rivalry and merriment, the event kicked off on an enthusiastic note. The moderators, Palki and Shreya gave a warm welcome to everyone.

The game was divided into three exhilarating rounds, each designed to challenge participants' wit and rapid thinking skills. The structure of the game was as follows:

Following the conclusion of the first round, the Family Feud game entered its second phase with heightened anticipation and a sense of friendly competition. Twenty selected participants formed four distinct family-like groups, each adorned with unique names, to engage in thrilling face-offs.

Maintaining a decorous and respectful environment was emphasized, with the hosts reminding all participants to refrain from using any form of obscenity or profanity during the course of the game. The strict policy against such language underscored the importance of fostering a positive and respectful gaming atmosphere.

With the enthusiastic participation and spirited engagement from the competing teams, the second round of the Family Feud game concluded on an exhilarating note. The selected victorious teams that demonstrated exceptional knowledge and teamwork emerged to advance to the highly anticipated final round.

In the third round, there was a face-off between the 2 teams that were the winners of the second round. The event continued to foster a sense of camaraderie and healthy competition, leaving all attendees with a memorable and enjoyable experience.

The event concluded with a sense of camaraderie and sportsmanship, as participants engaged in friendly rivalry and shared moments of joy. The Family Feud game successfully fostered a sense of community and entertainment, leaving all attendees with cherished memories and a renewed sense of connection.

❖ DUO DOODLE DELIGHT

The "Duo Doodle Delight" event, hosted by Palki and Shreya, took place in the mini auditorium on 18th October from 4.30 onwards. The event aimed to foster creativity and collaboration among participants through an engaging art and communication exercise. The primary objective was for attendees to find their artistic partners, known as "Duos," based on matching doodles and subsequently collaborate on creative ideas related to their shared drawings.

Palki and Shreya warmly welcomed the attendees, emphasizing the importance of maintaining a clean environment and encouraging everyone to tap into their artistic side. They introduced an activity that required participants to draw the same image on two separate sheets of paper.

Participants were given a time limit of 2 minutes to complete their drawings, ensuring clarity and comprehensibility of their artwork. The collected sheets were then redistributed randomly among the attendees, with the task of finding their designated Duos.

The attendees were given a total of 2 minutes to find their matches.

During the subsequent session, participants actively sought out their respective partners based on the shared section assignment. The event coordinators emphasized the importance of connecting and collaborating effectively. Once paired, the Duos were asked to sit together and tasked with creating something related to their common image, encouraging teamwork and creative thinking.

Palki and Shreya facilitated the presentation segment, randomly selecting Duos to share their collaborative ideas with the rest of the attendees. The presentations varied, encompassing poems, stories, jokes, and other imaginative expressions.

The event successfully promoted artistic expression and teamwork, fostering a vibrant atmosphere of creativity and camaraderie among the participants. The attendees actively participated in the activities, demonstrating enthusiasm and a willingness to engage in collaborative endeavors. Overall, the "Duo Doodle Delight" event provided an enjoyable and interactive experience, leaving a lasting impression on the attendees and emphasizing the power of creativity and collaboration.

❖ **Illuminight**

The Closing Ceremony of the IEEE Day Celebrations culminated in a highly anticipated and elegant Cultural Night known as Illuminight. The venue was bathed in the enchanting glow of dazzling lights, and it was a splendid evening that showcased exceptional performances by the talented youth of Mody University of Science and Technology.

The event was gracefully steered by Ms. Sakshi Singh, the Industrial Relations and Outreach Team Lead, and Ms. Suhani, a dedicated member of the IEEE Student Branch at Mody University of Science and Technology. Their seamless coordination added an extra layer of charm to Illuminight. The event featured a diverse array of performances, ranging from hip-hop to classical dance and music. The crowning jewel of the evening was a mesmerizing musical performance by members of the IEEE Student Branch at Mody University of Science and Technology. This ensemble of musicians, with their enchanting guitar melodies and rhythmic clapbox beats, accompanied by soulful singers, created a musical tapestry that elevated the entire Illuminight experience.

One of the standout moments of the evening was a captivating hip-hop performance by Ms. Gauri Audichya. Her dynamic dance, perfectly synchronized with Sachet Tandon's "Bekhayali," left the audience spellbound, as she flawlessly matched every beat and rhythm. To wrap up this three-day celebration filled with joy, Illuminight invited all participants and attendees to join in the festivities. Dancing and celebrating with neon bands that glowed in the dark, it was a vibrant conclusion to the IEEE Day Celebrations, leaving everyone with memories to cherish.

STUDENT ACHIEVEMENTS:

1. IEEE Student Branch has received the Second Prize, which comes with a prize of US\$450, in the IEEE Day 2023 Video Contest's Long Video Category. This recognition not only showcases the talent and innovation within our student community but also highlights the commitment of our institution to nurturing such talents. It is a remarkable accomplishment and a source of great pride for all of us at our IEEE Student Branch.

5. CAREER DEVELOPMENT CENTRE (CDC)

Objective of CDC: Transforming the Training and Placement Cell to the Career Development Centre for achieving a wider perspective and new horizon in the area of Career Counseling, avenues related to Higher Studies, Entrepreneurship and Placement.

To prepare students as per the Industry expectations and to make them Industry ready, several initiatives have been taken by CDC like:

- **Training**
 - (a) In house
 - (b) Through 3rd party agencies
- **Assessment**
 - (a) In house Mock Sessions
 - (b) Through 3rd party agencies of repute
- **Faculty Enablement Programme (FEP) in the area of:**
 - (a) Soft Skills
 - (b) Analytical
 - (c) Android Technology
 - (d) Foundation Programme 4.0 on Java, etc.

In association with various industry leaders, to make them acquainted with the recent trends of the industry.

❖ Infosys session

CDC has organized a talk on January 19, 2024 with Mr. Allahbaksh Mohammedali Asadullah, the Associate Vice President of the Strategic Technology Group at Infosys. His presence significantly enriched the session, offering invaluable insights for aspiring software developers. This aligns perfectly with our university's ethos of comprehensive learning and skill development.

Furthermore, there has been a remarkable enhancement in the placement packages offered by Infosys to our students. Starting from this year onwards, the package range has increased substantially, ranging from 6.5 LPA to 9.5 LPA. In conclusion, the session with Mr. Asadullah was a resounding success, and the improved placement packages with Infosys further highlight the positive trajectory of our university's academic and placement endeavors.

❖ **Inspiring and Informative Placement Prep Talk at Mody University**

Last Saturday, on 4th May, the Career Development Center (CDC) at Mody University organized a Placement Prep Talk that left everyone inspired and equipped with valuable insights.

Current 4th-year students who have secured placements in renowned companies like Visa, Walmart, JPMC, Barclays, IBM, Athena Health, Myntra, VMware, American Express, Siemens, and more, generously shared their internship and placement experiences. They not only motivated their juniors but also provided valuable tips and strategies for navigating the on-campus placement process.

In addition to the current students' talks, there was an enlightening Alumni Talk session. Alumni from batches 2019, 2022, and 2023 shared their personal insights and tips on how to crack on-campus placements, providing a holistic view of the journey from campus to corporate.

The event was a huge success, thanks to the enthusiastic participation of both current students and alumni. It was a testament to the strong community spirit at Mody University and the commitment of the CDC to prepare students for successful careers.





Mody University of Science and Technology, Lakshmangarh					
Overall Placement Report - Session 2023-24					
SCHOOL OF ENGINEERING (SET)					
Programme	Total Students	Not Interested / Not Eligible	Total Available Students	Students Placed	Placed %age
B. Tech. CSE	117	5	112	106	94.64
B. Tech. ECE	1	-	1	1	100.00
B. Tech. ECE (Computer)	1	-	1	1	100.00
B. Tech. ME	1	-	1	1	100.00
B. Tech. NST	1	1	0		-
B.Tech. BME	4	1	3	3	100.00
BCA	4	2	2		0.00
MCA	8	3	5	4	80.00
Total	137	12	125	116	92.80
Maximum Package (Rs.in LPA)		Average Package (Rs. in LPA)		Percentage (%)	Company Visited
32.76		10.38		84.12*	68*

6. STUDENT SOCIETIES

6.1 GOOGLE DEVELOPER STUDENT CLUBS (GDSC), SET MUST

The Google Developer Student Clubs SET, Mody University of Science and Technology (GDSC MUST) has conducted several events. Events and activities were beneficial for each student of the SET, MUST. The community is maintained by highly dedicated team with Apoorva Nagar as Lead, and Core team and executive team members. Under the guidance of Mr. P. K. Bishnoi and with an aim under the umbrella of Google and SET, MUST to uplift the technical community, following are the milestones achieved by the team:

The GDSC MUST Community is currently a family of 270+ community members within a span of few months. With over a great reach over various platform, GDSC SET, Mody University is providing value across LinkedIn, Instagram, Twitter, Discord and YouTube.

ACTIVITIES:

❖ GDSC ORIENTATION 23

The Google Development Student's Club (GDSC), which is the technology society at Mody University, aims to ignite a passion for technology with a team of 180+ members. GDSC acts as a support system for those looking to enhance their competitive skills. It serves as a vibrant community where tech enthusiasts come together to share and acquire knowledge.

On September 9th, 2023, GDSC hosted an orientation in the mini auditorium at 4:30 pm. The event commenced with a warm welcome from the society, followed by opening remarks by Ms. Bhuvi Jain and Ms. Bhavya Jamar.

Ms. Daisy Vyas, the GDSC University Lead, provided an introduction to the tech society. GDSC strives to create an environment where every member can develop and refine their skills, acting as a foundation for students to gain knowledge and excel in interviews. Attendees were informed about the wealth of resources and support available through the technical society.

Ms. Aadya and Ms. Avni Gaur provided a glimpse of GDSC's past tenure, while Ms. Raj Rajeshwari Rathore and Ms. Prisha Prajapati outlined forthcoming events. Global events, including

quizzes and games, were managed by Ms. Lavanya Pathak and Ms. Anshika Yadav. The tech quiz, featuring Kahoot questions, was led by Ms. Shivangi Chandra and Ms. Bhuvi Jain. A meme quiz was hosted by Ms. Isha Sharma and Ms. Ishita Goyal.

The leads then introduced their teams and their roles to the audience. GDSC also shared information on how newcomers can join the team and collaborate in a constructive environment. The admission process involved a test followed by personal interviews scheduled for September 12th, 13th, and 14th, 2023.

To make the orientation session more engaging, various activities and fun quizzes were organized:

1. "Guess the Logo" challenged students to identify popular Google tools by their logos.
2. The "Kahoot Quiz" tested students on programming languages.
3. The "Meme Quiz" asked students to identify and act out memes related to given words.

The orientation session concluded with a prize-giving ceremony for GDSC's recent poster and blog writing competition. The prizes were given by P.K. Bishnoi (Faculty Advisor) and the Dean, SET to the following winners:

Poster-Making Competition:

1st Prize: Nehal Yadav (1st Year)

Runner-up: Rijul (2nd Year)

Blog Writing Competition:

1st Prize: Manvi Agarwal (1st Year)

Runner-up: Arshin Kazi (1st Year)

Ms. Daisy Vyas, the GDSC Lead, summarized GDSC's mission and motto, "LEARN, GROW, CONNECT," wrapping up the informative and engaging orientation.

Team GDSC also extends a heartfelt gratitude to the director, Mody University, The Dean, SET and the teachers and other faculty members for being so amenable in helping to organize and work things out and also for gracing the orientation with their presence.





6.2 Anahata Club

❖ Teacher's Day



On the joyous occasion of Teachers' Day, Enginium organised a grand celebration to honour and appreciate our dedicated educators. The event was filled with an array of captivating dance performances, exciting games, and various other entertaining activities, making it a memorable day for everyone. The event commenced with a mesmerising dance performance by students. The dance troupe choreographed a beautiful medley of traditional and contemporary dance forms. The colourful

costumes and graceful movements of the dancers captivated the audience. The performances showcased the talents and dedication of our students, and the applause from the teachers filled the air with warmth. To add an element of fun and excitement, various interactive games were organised. Teachers and students participated enthusiastically in games like guessing the correct actor and actress from the cropped image, guessing the song from given emoticons, Antakshari, and many more. These games fostered team spirit and provided moments of sheer joy and laughter. The open mic session provided a platform for students to showcase their talents beyond academics. Students confidently recited poems, sang songs, and shared inspiring stories. It was a heartwarming display of courage and creativity.



The cake-cutting ceremony was a moment of joy and celebration. Teachers and students gathered around to cut a beautifully designed cake. It was a symbolic gesture to signify the sweetness of the teacher-student relationship. One of the most anticipated moments of the event was the speech by our Director. He spoke about the importance of teachers in shaping young minds and encouraged both students and teachers to continue striving for excellence. The speech was inspiring and left everyone motivated. The Teachers' Day celebration was an absolute success, filled with dance, games, and a plethora of fun events. It was a day of appreciation, laughter,



and bonding between teachers and students. The event served as a reminder of our teachers' invaluable role in shaping our lives and futures. It left everyone with cherished memories and a renewed sense of respect and gratitude for the educators who guided us on our educational journey.

❖ **Parichay-2023**

Date of event: 26th October 2023

Parichay is the orientation event of Anahata, our vibrant and diverse cultural society, Penumbra, the Public Speaking society of the University and Picturesque, the photography society. The event was an opportunity to experience the magic of our societies. It covered a Plethora of performances by different cultural societies of Mody University.

Anahata, the cultural society of our university, serves as a vibrant tapestry of diverse talents, traditions, and creativity. Through music, dance, art, and various cultural expressions, they foster unity and celebration of cultural diversity on campus. Anahata is where students come together to share their cultural heritage, bridging gaps and fostering understanding through the power of the arts.

There are 6 sub-teams of Anahata:

- **HOOFERS:** It is the university's Western dance society, kicks up a storm with their spirited twirls and stomps.
- **SILVER STEPPERS:** Silver Steppers, our university's classical dance society, exudes grace and beauty in every performance, bringing the timeless art of ballet to life on campus.
- **BLACK PEARLS:** Black Pearls, the university's contemporary dance society, pushes boundaries with their innovative and expressive choreography.

- **GOONJ:** Goonj, the university's melodious singing society, harmonizes voices to create beautiful music that resonates throughout the campus.
- **BIS:** BIS, the university's drama society, takes the stage by storm, delivering captivating performances that leave audiences spellbound.
- **ESSENCE:** Essence, the university's fashion society, radiates confidence and style on the runway, showcasing the diversity of beauty and fashion. It has 4 sub -teams: Modeling, Hair and Makeup, Designing and Photography.



Picturesque, the university's photography society, captures the essence of life and campus through the lens. With their keen eye for detail and artistic vision, they transform ordinary moments into breathtaking works of art, providing a visual diary of university life for all to appreciate.

Penumbra, the esteemed public speaking club of our university, is a beacon of oratory excellence and self-assurance. Penumbra provides a safe and supportive environment for honing public speaking talents, making it a valuable resource for students seeking to excel in academia and beyond. The anchoring part of the event was conducted by members of Penumbra.



❖ Enginium's Orientation

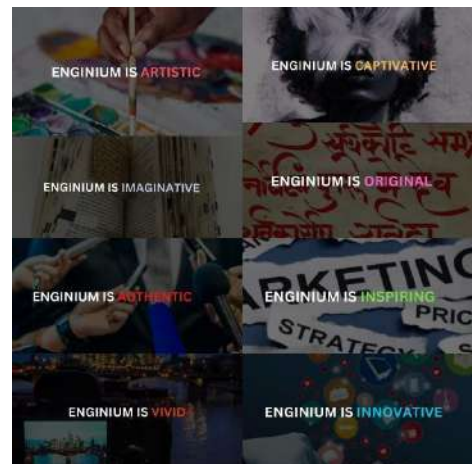
Date: 08/10/2023



The Enginium Society, a hub of innovations and new creations, successfully hosted “Mosaic”, its grand Orientation Event on 8th October at Mini Auditorium. The event aimed to abide the freshers of university by the values, roles and work performed by Enginium as a society. To break the ice and create a friendly atmosphere the event commenced with a warm-up game that helped students to get invested and winners were awarded with chocolates followed up by introduction of core-team members who expressed their enthusiasm for the upcoming year & thanked

everyone for joining them on this joyous day.

The structure of the executive committee and various roles within the club were explained by them. Students learned about the positions of executive members of society. The club's objectives for the year were outlined, emphasizing the importance of creating a high-quality college magazine that reflects the diverse talents and interests of our college community. Then, it was followed up by the introduction of the 8 teams under Enginium namely, Art Team, Creative Team, English Team, Hindi Team, Journalism Team, Marketing Team, Photography Team, and Technical Team, with a remarkable video.



Coordinators of every team gave a presentation on what their team is about and who are the members of the team and what their recruitment process is and asking all students to join them on recruitment day.

Then comes the most awaited part: Revealing the new logo of Enginium.



The event concluded, allowing students to network and get to know each other. The event was a grand success achieving society's mission interactively looking forward to seeing these new faces actively contributing to our innovative community. We are excited to embark on a new academic year making a positive impact through our innovations.

❖ **Anahata Farewell' 2024**

Date of event: 5th May 2024



The festivities commenced with the resonant melodies of the University Kulgeet, setting the stage for a celebration of the class of 2024. Post-giving, titles, and performances ensued, infusing the atmosphere with excitement and anticipation. Mentors and students came together, their spirits lifted by the joyful energy of the occasion. As the event unfolded, the air filled with a sense of pride and camaraderie, creating a memorable backdrop for the journey ahead.



The event was conducted at the Sangeet Samrat Tansen Sabhaghar (Mini Auditorium). It was successfully organized by Shruti Lodha, Aanchal Maheshwari, Archita Kadambiya, Aashita Agarwal and Vedika Singh.

Anahata Core Members 2024-2025

Ms. Archita Kadambiya: General Secretary

Ms.Aashita Agarawal:Joint Secretary

Ms.Vedika Singh : Joint Secretary

Ms.Shruti Lodha: Anahata Media Head

Performances:

1) Hoofers

The 1st, 2nd and 3rd year students of Hoofers presented an astonishing dance performance for bidding their seniors a memorable farewell. Many members of the dance community performed on stage.



2) Black Pearls

Fusion dance of Contemporary and western was done within a community of social dancers that have a variety of views on what it means to Fusion dance.



3) Silver Steppers

Silver Steppers, the official classical dance society of Anahata presented its dance performance.

The beats of the footsteps were accompanied by the hootings from the audience.



4)Goonj

Goonj, the official music society under Anahata came forward with their melodious voices and gave a beautiful performance. Music is the language of souls, and through this language Goonj expressed their wishes, bid goodbye to the seniors and thanked them for giving such lovely time with a soul melody especially made for them. The performance was from the heart to the heart which made the seniors' eyes filled with emotions and the only thing they had after the performance was a heart filled with emotions and love.



5) Essence

Essence, the fashion society of Anahata presented its phenomenal performance which ended with a thunderous clap from the mighty Audience.



6) Broadway Impersonators (BIS)

The Broadway Impersonators (BIS) being the Acting society of Anahata, performed an act on the theme “College ” on the occasion of farewell of our respected seniors. The play is about the one couple (Laila and Majnu) and his best friend who is Manju who likes Majnu. And she doesn't want Laila and Majnu to be married. So she went to their wedding place and then Shilla Chachi

(Chachi of Majnu) misrupt that Manju is the bride and thn the drama begins ..at the end happy ending is there.

The act was a huge success and received loads of cheers, laughter and appreciation from the audience.



7. OTHER EVENTS

7.1 ORIENTATION-SET, 2023

The Student orientation Program for the session 2023–24 was started on 11th of August 2023, at Mody University of Science and Technology in the Sangeet Samrat Tansena Sabhagar.

The faculty Coordinator of the event were Dr. Sandeep Jaiswal and Dr. Jeetu Sharma.



The whole program had twenty one days-schedule. To begin with, a fruitful speech by Dr. Rajeev Mathur, Director of Mody University, enlightening students on various tips on how to be productive and make maximum use of the given time.

Followed by an introduction to the School of Etiquettes and Finishing Skills, by Ms. Shanu Ora, specifying to the students the gap between what is taught and what is to be done, a culture of respect and value and with the motive of “Kritsnam”- Let completeness define you. It’s equally essential for personal settings and



growth alongside imparting life skills.



In addition, an interactive session with Ms. Asha Acharya from the career development center, asking about their interests and why they took courses they are in. “Make a conscious choice”, nobody can grow in their comfort zone, discover themselves, explore options, make decisions, then evaluate themselves to take action.

Date: 12/08/23

On second day of orientation program a session was conducted by Dr. Jeetu Sharma, Assistant Professor, ECE department who told students about women scientist in ISRO and their achievements, she covered successful journey of chandrayaan mission 3.



An online meeting with an ISRO woman scientist, Dr. Jaya Saxena was done with the first year students. She gave in-depth information about satellites including Indian satellites.



Date: 14/08/23

The next day, Dr. Nishant Singh marked the beginning of the session, familiarizing students with foreign language skills for global opportunities.



Followed by Ms. Kanishka Sharma, highlighting the importance of sports for overall development , what the campus has to offer.



Dr. Harlal Singh, COE-MUST told students about the examination criteria and the main aim of NEP 2020 to provide a holistic and flexible learning experience to students.



Date: 16/08/23

The narrative crescendoed with a motivational symphony by Mr. Tarun Sharma, igniting fires within hearts. Tarun Sharma is an Entrepreneur, Josh Talks, Professional Speaker, Mentor & Social Activist Founder President of "The Rising, Tamso Maa Jyotirgamaya (Regd. Ngo Since 2007)



Date: 17/08/23

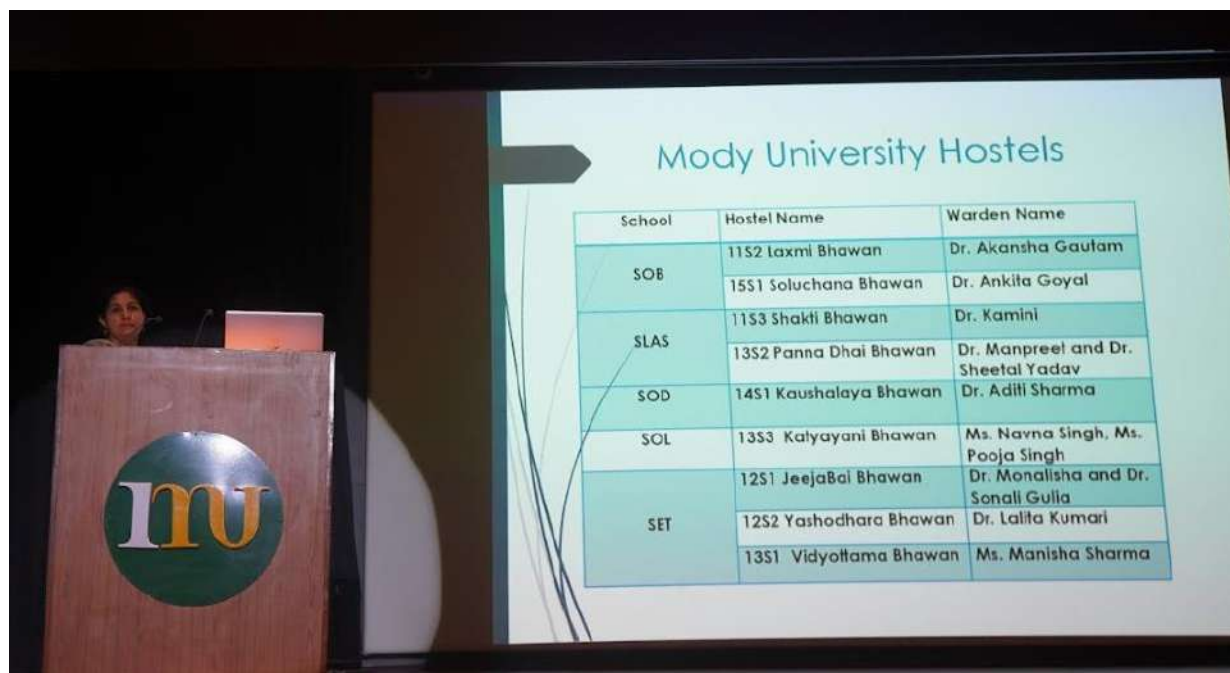
Followed by, Mr. Akshay Jain, Librarian Incharge, who made students familiar with the library rules and its assets. After this, Dr. Jeetu Sharma, gave information on all the clubs and societies, so that the students can look out for their interests and apply accordingly.



After this, Mr. Hitesh Jangir, Assistant Professor, drew light on the importance to foster international competencies in faculty and students.

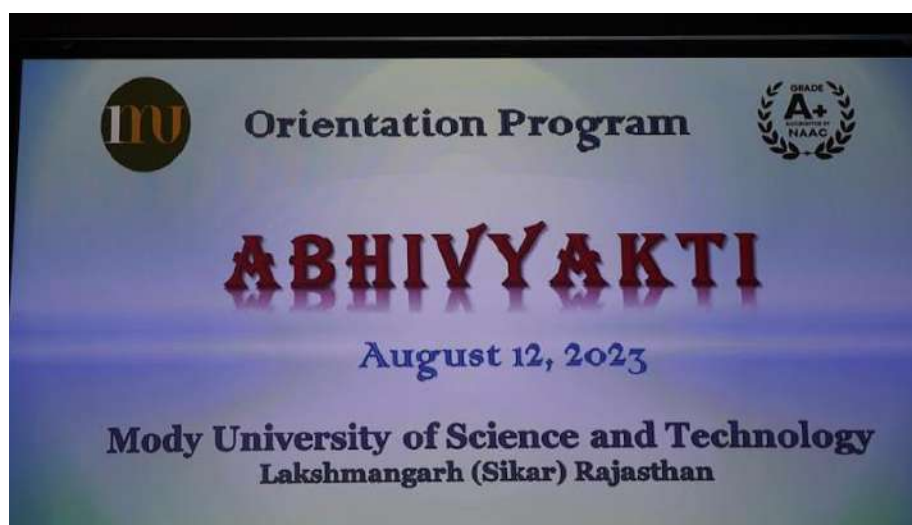


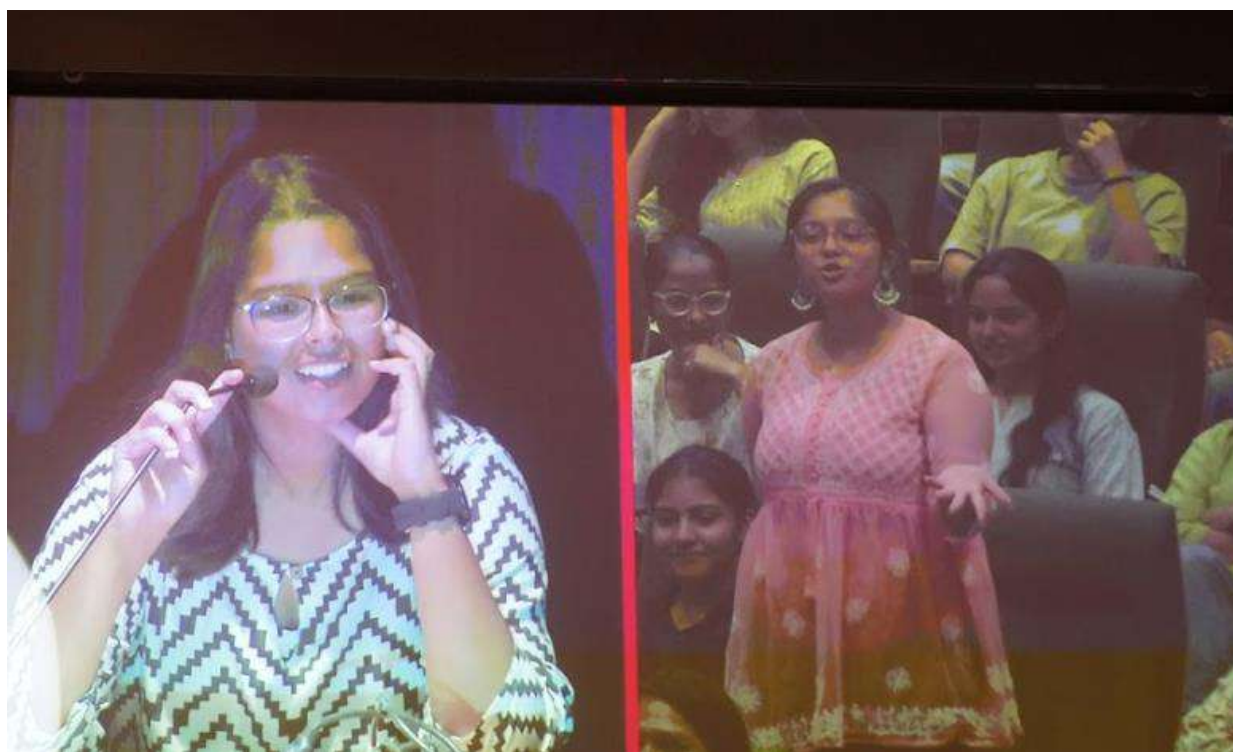
Date: 18/08/23



HOD CSE and chief warden, Dr. Vinod Maan graced general hostel rules and regulations for students. Thus, it marked the end of the first day. Dr. Sunidhi Mishra, assistant professor food and nutrition department explained the first year students about the healthy habit that boost your energy level. Dr. Geetika Saxena, assistant professor, psychology department took a session on mental wellbeing.

Date: 19/08/2023





The chapters that followed included cultural celebrations, dynamic programs “Abhivyakti” by students, and glimpses into the various realms of dance, singing, drama and debate.

Date: 21/08/2023

Microsoft Career Program

Mr. Rahul Bhargava

Founder- SheKunj & R Dot Ventures IIT & TedX Speaker



On 21st August 2023, different Programmes of Microsoft was conducted by Mr. Rahul Bhargava. The aim of the program was to Empowering the students of today to create the world of tomorrow” Making Students Future Ready with Digitally-driven, Outcomes-focused Certification Programs.

The speaker was Mr. Rahul Bhargava (from the side of Microsoft) Founder and Managing Director of R Dot Ventures, Shekunj.com and OctaHire.com.

The program focused on providing information

About the Future Ready Skills required thriving in this digital world according to both, tech and non-tech background's students.

About Microsoft for learning.

About Guiding and Explaining to students about all the major

Certifications with other benefits.

About Microsoft Student Ambassador, Students Partnership program, Microsoft Championship and other competitions.

Roadmap to achieve Microsoft Educational Scholarships and how to become Microsoft Intern.

The program was conducted in two sessions between 10:00 AM to 4:30PM. Students were happy to attend the program.

Date: 23/08/2023

A session on Art of Living by Ms. Ginni Gupta, a proud Alumni of Mody University, who completed her undergraduate degree in Computer Science Engineering. As a Manager in Data Analytics & Open Source Intelligence for the GMR Group, she is presently employed at Delhi

International



Airport Ltd. She also taught how to handle the mind as an Art of Living Trainer.

Date: 24/08/2023

Dean SET Prof. Prateek Bhanti, addressed the students of first year. His words were incredibly motivational and inspiring for all the students present over there. In his speech, he welcomed the new first-year students. He highlighted the importance of engineering in today's world and emphasized the exciting opportunities and challenges that lie ahead for them. He encouraged students to be curious, innovative, and collaborative. The dean also stressed the value of ethical and responsible technology development. Overall, he motivated the students to make the most of their time in the department and wished them success in their studies and future endeavors.



Next up, Dr. Vikrant Sharma (HoD Mechanical Engineering) coordinator of the First year welcomed the incoming students to the SET department. He highlighted the importance of a strong foundation in the first year and encouraged students to actively engage with their studies. He discussed the curriculum, study techniques, and available academic support resources. He also shared insights into the faculty's commitment to providing quality education and fostering a supportive learning environment. Overall, He motivated the students to embrace challenges, seek help when needed, and set a positive tone for their academic journey ahead.

HoD CSE Department Dr. Vinod Maan emphasized how the department of Computer Science & Engineering is involved in providing quality education. The CSE department is committed to preparing Engineers who are highly sought after, productive, and well-respected for their work, and who contribute to new developments in computing. Also, the department gives students in

other disciplines an appropriate foundation in computing for their education, research, and experiences after graduation.

The tale climaxed as department heads, likewise sages, shared their wisdom and hopes for the students. A vibrant exploration set the stage for a universal conclusion on human values by Dr. Rajeev Mishra.

With hearts full of promise, the orientation concluded. The students emerged as protagonists in their journey, ready to script their own chapters of excellence, armed with knowledge, passion, and the wisdom that comes from universal values.

The culmination of this induction period marks not only the beginning of their journey together but also the foundation upon which they will build their shared success. As this event concludes, everyone was filled with optimism and excitement for the possibilities that lie ahead.

Date: 25/08/2023



HoD ECE Department Dr. Rajeev Pourush Sir highlighted the importance of Electronics and Communication Engineering. The department has a rich tradition of teaching and research and is widely recognized to be a pioneer in Electronics and Communication Engineering education in India. In addition to this, he mentioned Ph.D. programs in the areas of VLSI Design, Communication System & Engineering, Sensor Networks, Mobile and Wireless Communication, etc which provides a platform exclusively for bright young women graduates and postgraduates to conduct research in state-of-the-art technologies.

Dr. Mukheshwar Yadav from Mechanical Engineering department explained that Mechanical engineering includes the study of physical machines that may involve force and movement. It is an engineering branch that combines engineering physics and mathematics principles with materials science, to design, analyze, manufacture, and maintain mechanical systems. It is one of the oldest and broadest of the engineering branches.

Dr. Sunita Kumari, HoD EE Department accentuated that electrical power is an integral part of modern life. She discussed the crucial significance of how this department plays a key role in day-to-day living. It is impossible to visualize the world without electricity. The Electrical Engineering Department, for instance, is likely responsible for teaching and conducting research. This could encompass various topics such as electronics, power systems, telecommunications, control systems, and more.

Date: 26/08/2023

Dr. Sandeep Jaiswal- HoD BME Department discussed how Biomedical Engineering is the fusion of two vibrant disciplines, Medicine & Engineering. The goal is to better understand, replace or fix a target system to ultimately improve the quality of healthcare. Fields of study in biomedical engineering include Biomedical Instrumentation and Medical Devices, Biomedical Signal & Image Processing, Medical Imaging, Biomechanics, Biomaterials, Artificial Organs, Cell and Tissue engineering.

Date: 29/08/2023

Proficiency Activities

Location: [Nuclear Lab - ABB 325]

Purpose:

1st year students of the School of Engineering and Technology visited the Nuclear Lab facility during the Induction Programme from 17-08- 2023 to 22-08-2023 from time 2:30PM to 4:30PM to get some insight into the various aspects of nuclear science, research, safety protocols, and applications. Nuclear Lab is a state-of-the-art facility dedicated to nuclear R&D and lab work. It is equipped with advanced laboratories, radioactive sources, and cutting-edge instrumentation for various nuclear-related studies. The lab's focus areas include nuclear energy, radiation safety, nuclear medicine, and nuclear materials research.

Students are introduced to sophisticated nuclear instruments used for radiation detection, radiation shielding, and analyzing radiation, nuclear particles, and materials. Nuclear safety measures and protocols were prominently emphasized throughout the visit. The lab adheres to strict safety standards to ensure the well-being of personnel, the surrounding environment, and the prevention of any accidental release of radiation. Overall, this visit helped students understand nuclear research and its multifaceted applications, such as research reactors, nuclear safety, nuclear medicine, radiography, nuclear waste management, nuclear instrumentation and analysis, etc.

Snapshots:



Mechanical Engineering Department

Proficiency Activities Report

The mechanical workshop in the first year is essential for introducing students to fundamental engineering concepts and practical skills. The objective of the departmental proficiency activities is to improve students' practical knowledge and competence in a variety of mechanical engineering practices. These activities include a variety of tasks that aid students in understanding theoretical concepts through application.

The proficiency activities provide first-year engineering students with numerous benefits:

1. These activities provide practical experience that complements theoretical learning, thereby enhancing students' overall comprehension of mechanical concepts.
2. Students gain expertise in marking, measurement, material handling, and fundamental fabrication techniques. These competencies are essential for future engineering work.
3. Collaborative projects foster teamwork and effective communication among students, simulating actual engineering situations.
4. Students are taught essential safety protocols and practices while working with machinery and tools, fostering a safety-first mentality.







Date: 31/08/2023

ECE Department

Proficiency Activities Conducted During Student Induction Program

ECE dept. conducted proficiency activities during student induction programme for First year students during 17/08/23 to 22/08/23. Students visited ECE laboratories that includes Antenna and Wave Propagation Laboratory, Digital Electronics Laboratory, Network Analysis and Synthesis Laboratory, Microprocessor and Microcontroller Laboratory, and Communication Laboratory. Faculty Lab in charge of concerned lab has explained and demonstrated about the various equipments available in lab and provide the information of the experiments that can be conducted in that lab.

Apart from that some projects has been designed for students so that they can get the exposure about the process of making the electronics projects on breadboard. These projects are listed below:

Understanding Electronics Components

Creating a Water Level Sensor using LED

Building a Simple Doorbell Circuit

Designing a Flashlight Circuit

Designing a Traffic Light Controller Circuit

Making a Fan Regulator Circuit

Creating an LED Circuit



Biomedical Engineering Lab Visit

Introduction:

The induction program for B. Tech. 1st year students, focusing on the Biomedical Engineering lab, was conducted from 17-08-2023 to 22-08-2023. The purpose of this program was to provide students with an immersive introduction to practical aspects of the biomedical engineering field of study and equip them with hands-on experience in performing critical tasks like Cardiopulmonary Resuscitation (CPR) and Blood Pressure Measurement.

Objectives:

Introduce students to the practical application of Biomedical Engineering concepts.

Develop students' skills in performing CPR and measuring blood pressure accurately.

Promote teamwork, communication, and problem-solving among students.

Program Activities:

Lab Orientation and Safety Briefing:

The induction began with an orientation session led by the lab coordinator, providing an overview of lab safety rules, equipment usage, and emergency protocols. Students were familiarized with the layout of the lab and the location of essential equipment.

Theoretical Background:

Before the practical sessions, a short lecture on the principles of CPR and blood pressure measurement was conducted. The lecture covered the importance of these skills in the context of biomedical engineering and healthcare.



Activity 1: CPR Demonstration and Practice:

Students were divided into smaller groups and guided by instructors through the steps of Cardiopulmonary Resuscitation (CPR). The session included hands-on practice on mannequins to simulate real-life scenarios. Instructors provided individual feedback and corrections to ensure proper technique.





Activity 2: Blood Pressure Measurement:

Students were introduced to the instruments used for blood pressure measurement, including sphygmomanometers and stethoscopes. They were given demonstrations on proper placement of the cuff and stethoscope, as well as accurate measurement of systolic and diastolic pressures. Each student had the opportunity to practice taking blood pressure measurements on fellow participants.



Outcomes and Achievements:

Skill Development: Participants gained practical experience in performing CPR and measuring blood pressure, which are crucial skills for anyone in the biomedical field.

Team Collaboration: The group activities encouraged collaboration, communication, and the sharing of knowledge among students.

Confidence Building: Hands-on practice boosted students' confidence in handling medical equipment and responding effectively in critical situations.

Understanding Real-world Applications: Students could relate theoretical knowledge to real-world scenarios, enhancing their understanding of biomedical engineering concepts.

Conclusion:

The induction program successfully exposed B. Tech. 1st year students to practical aspects of biomedical engineering through hands-on activities in the lab. By imparting CPR and blood pressure measurement skills, the program aligned with the goal of preparing students for real-world challenges and fostering a deeper understanding of the field of study.



With this the second half of the session came to an end. The students were able to establish the foundation of their academic path during this session, which also served as a promising beginning for their new voyage.



7.2 FELICITATION CEREMONY 2024

SET Felicitation 2024



To celebrate the fabulous journey of the batch of 2024, a felicitation ceremony was organized and executed with full joy and enthusiasm by the SET department. This event commenced with welcoming the dignitaries, faculty members and the students followed by the University Song,

Kulgeet and Ganesh Vandana. Then, the students were addressed by Mr. Sudhanshu Sinha- GM CDC.



After this, students of the batch of 2024 were felicitated for their spectacular achievements.

Alternately, the students of different societies and the students of the batch of 2024 gave various performances. The students selected for higher studies by various esteemed colleges of the batch of 2024 and the interns selected of the batch of 2025 were felicitated as well for their remarkable success.



The evening concluded with a soulful performance by the students of the batch of 2024 with some mesmerizing songs followed by the National Anthem and a group photograph. The event was conducted at the Sangeet Samrat Tansen Sabhaghar (Mini Auditorium). It was successfully organized by Shruti Lodha, Aanchal Maheshwari, Archita Kadambiya, Aashita Agarwal and

Vedika Singh.

Event Conveners:

Aanchal Maheshwari and Vedika Singh

Performances:

1) Hoofers

The 1st, 2nd and 3rd year students of Hoofers presented an astonishing dance performance for bidding their seniors a memorable farewell. Many members of the dance community performed on stage



2) Black Pearls

Fusion dance of Contemporary and western was done within a community of social dancers that have a variety of views on what it means to Fusion dance.



3) Silver Steppers

Silver Steppers, the official classical dance society of Anahata presented its dance performance.

The beats of the footsteps were accompanied by the hootings from the audience.



3) Goonj

Goonj, the official music society under Anahata came forward with their melodious voices and gave a beautiful performance. Music is the language of souls, and through this language Goonj expressed their wishes, bid goodbye to the seniors and thanked them for giving such lovely time with a soul melody especially made for them. The performance was from the heart to the heart which made the seniors' eyes filled with emotions and the only thing they had after the performance was a heart filled with emotions and love.



5) Essence

Essence, the fashion society of Anahata presented its phenomenal performance which ended with a thunderous clap from the mighty Audience.



6) Broadway Impersonators (BIS)

The Broadway Impersonators (BIS) being the Acting society of Anahata, performed an act on the theme “College ” on the occasion of felicitation of our respected seniors. A bright student embarks on the journey from school to college for a B.Tech degree, encountering a whirlwind of emotions played by different characters. Supported by a loyal friend and challenged by a difficult roommate, the student confronts inner doubts and external pressures. Witness the resilience and resolve as the student navigates the highs and lows of academic and social life, emerging stronger and more determined to succeed.

The act was a huge success and received loads of cheers, laughter and appreciation from the audience.



7) Performances by 2024 Batch





7.3 SET FRESHERS' 2023

Theme: Opulent Whispers

SET Freshers' party for the year 2023-24 was organized on 18th September, 23 in Tansena Sabhagar. The event was organized by students of SET 2nd year.

The following performances and ceremonies that took place in the event are:

Judges Felicitation: The event began with the felicitation of the judges, acknowledging their important role in the competition.



Dean Sir and Director Sir's speech: respected dean sir and director sir embraced the event with their thoughtful words motivating and encouraging the students for their bright futures.



Semiclassical Group Dance: A captivating semiclassical group dance performance enthralled the audience, setting the tone for the evening.



Miss Freshers Pageant:

- a. First Round - Modelling: Contestants showcased their style and confidence in the first round, strutting their stuff on the runway.
- b. Second Round - Talent Hunt: The second round allowed participants to exhibit their unique talents and skills.
- c. Third Round - Questionnaire: Contestants answered challenging questions, displaying their wit and knowledge.





Game: A fun and enjoyable game with interactive tasks and dares where the students got a chance to perform on stage and show their creative side.



Singing Performances: Two talented singers captivated the audience with their melodious voices.



Freestyle Dance Performance: A mesmerizing freestyle dance performance added an extra dose of energy and entertainment.



Winners and Runner-Ups: One winner and two runner-ups were announced, recognizing their outstanding performances and skills.



Conclusion: The event concluded on a high note, leaving the audience thoroughly entertained and inspired by the talents of the freshers and seniors.



7.4 Visit of Mr. Andreas Hartnack, IMT Atlantique, France

Mr. Andreas Hartnack, Project Manager for the Safe and Reliable Nuclear Applications (SARENA) which is a project under the Erasmus Mundus of the European Commission at IMT, Atlantique, Nantes, France is visiting Mody University of Science and Technology from 19/10/23 to 21/10/23.

The main agenda of the visit is to inform students of the pre-final year from the School of Engineering and Technology (CSE, ME, EE, CEC, and Nuclear Engineering) and School of Liberal Arts and Sciences (Physics, Chemistry) for the application process of fully funded Erasmus Mundus Joint Master (EMJM) Program in Nuclear Engineering. Upon getting selected a student is entitled to receive a grant of 1400 Euros/ month (1,24,000/- INR/month) for the duration of two years during her master's (PG) in Nuclear Engineering at IMT, Atlantique.

The master courses will be taught to selected students in four partnering universities of Europe which are IMT Atlantique, France, Universidad Politecnica de Madrid, Spain, Lappeenranta University of Technology, Finland and Univerzza v Ljubljani, Slovenia. The overall coordinator for the program will be IMT Atlantique, France.

There are two available tracks in the above-mentioned Joint Master Program

- a. Radioactive Waste Management and Decommissioning (RWMD)
- b. Nuclear Reactor Operations and Safety

In both tracks the last semester of the program student will be doing her internship either in an institution or in a company for the duration of six months.

The session was held in room no. 1 of the ABB building from 11:00 AM to 12:00 PM today (20/10/23) and was attended by pre-final year students and faculty members of the above-mentioned domains. Apart from this Prof. Prateek Bhanti (Dean, SET), Mr. Hitesh Jangir (Assistant Professor, SET & Manager International Relations, MUST) and all Department Heads were also present. Soon after the session students were asked to meet Mr Hartnack if they had specific questions. After that, Mr Hartnack was given a complete tour of the campus of MUST and was informed about the available academic facilities such as the Library, and various labs of all the schools.







**7.5 National seminar on “Framework Guidelines for Preparation and Submission of IIQA, SSR and AQAR for NAAC Accreditation”
Organized by Internal Quality Assurance Cell (IQAC)**

Mody University of Science and Technology

Lakshmangarh, Dist. Sikar, Rajasthan – 332311

Brief Event Report:

Date: 27th October, 2023

Time: 9:30 AM to 05:00 PM

Expert Speaker: Prof. Vikram Singh, Professor (J. C. Bose University of Science and Technology), Dr. Leena Gahane (Former Deputy Adviser, NAAC), Dr. N. P. Padhy (Director, MNIT), Dr. Sujata Shanbhag (Advisor, NAAC), Prof. Sudhi Rajiv (V.C. Haridev Joshi University)

Prof. Jitendra Binwal (Dean, SLAS, MUST), Dr. Jeetu Sharma (IQAC coordinator, MUST)

Number of participants: 100 (Faculty Member and staff member)

Mode: Hybrid.

About the event:

Internal Quality Assurance Cell (IQAC), Mody University of Science and Technology (MUST), Laxmangarh, has successfully conducted a NAAC-sponsored national seminar on "Framework Guidelines for Preparation and Submission of IIQA, SSR, and AQAR for NAAC Accreditation" on 27th October, 2023. The seminar has covered all seven NAAC criteria (namely: 1. Curricular aspects; 2. teaching, learning, and evaluation; 3. Research, innovation, and extensions; 4. Infrastructure and learning resources; 5. student support and progression; 6. governance, leadership, and management; 7. institutional values and best practices, etc.). This national seminar has contributed to the enrichment of knowledge about NAAC criteria and awareness to enhance teaching, research, administration, infrastructure, best academic practices, curriculum, and extracurricular activities in line with NAAC standards. The participants have enriched their knowledge and the process of preparing different reports, such as IIQA, SSR, and AQAR, for NAAC accreditation.

The seminar has been commenced by the welcoming of the respective dignitaries on the stage by Dr. Jeetu Sharma (IQAC coordinator, MUST) and Dr. Surendra Singh Rajpurohit (Organizing Secretary), hosted by Dr. Meenakshi Sharma and Dr. Jyoti Gaur. The programme was inaugurated with a rendition of the Saraswati Vandana and the institute's Kulgeet.

The keynote address was delivered by Honourable Executive Convener Prof N.K. Maheshwari (Dean, Administration MUST and Executive Convener of the seminar), He addressed the role of the Internal Quality Assurance Cell (IQAC) within the context of the revised framework, emphasizing its significance in enhancing the quality of educational institutions. He stressed the importance of evaluating both the quantity and quality of efforts made by Mody University to

enhance the quality of work, implement best practices, and facilitate teaching and learning. Furthermore, he underlined the need for retraining for faculty members and other stakeholders.

The Honourable President, Dr. Shashi Bala Singh (Chairman of the Inaugural Function), placed a significant emphasis on the assurance of quality in higher education. She provided an overview of Mody University's involvement in the assessment and accreditation of educational institutions under the purview of society. Dr. Singh emphasized the importance of assessing both the quantitative and qualitative aspects, which are integral components of a progressive education system.

In the expert talk by Prof. Vikram Singh (Professor, J. C. Bose University of Science and Technology) about different NAAC assessment criteria and different aspects of quality education with valuable insights with importance of holistic approach to education, focusing on not just academic excellence but also the overall development and well-being of students and the institution's contribution to society.

In the following session, Dr. Leena Gahane (Former Deputy Adviser, NAAC) delivered a talk about "NAAC Accreditation: A Journey to Institutionalization of Quality Culture." Quality culture refers to the establishment and integration of a culture of quality and excellence in academic facilities, continuous improvement, and a shared commitment to delivering the best possible outcomes.

Dr. Narayana Prasad Padhy (Director, MNIT Jaipur and Director, IIIT Kota) has stressed the main purpose of the NAAC and value addition in the education system. He talked about the importance of the accreditation of higher education institutions in India to ensure the quality of education and research.

Dr. Sujata Shanbhag (Advisor, NAAC) has delivered a talk on "SSR Preparation under the Revised Assessment and Accreditation Framework and explained the process of the Self-Study Report (SSR) preparation under the Revised Assessment and Accreditation Framework by the National Assessment and Accreditation Council (NAAC) in India. She emphasized a structured process to assess the quality and performance of higher education institutions through comprehensive data and evidence that demonstrate the institution's compliance with the criteria and indicators outlined in the framework.

Professor Sudhi Rajiv, Vice-Chancellor of Haridev Joshi University, Jaipur, delivered a presentation on the topic 'Best Practices in Higher Education Institutions.' During the presentation, she elucidated the significance of various best practices, including Student-Centered Learning, Effective Teaching, Faculty Development, Research and Innovation, Assessment, and Outcomes-Based Education.

Dr. Jitendra Binwal (Dean SLAS, MUST) has provided a comprehensive explanation of the guidance pertaining to Criteria III. He emphasized on topics such as promotion of research and facilities, resource Mobilization for Research, Innovation Ecosystem, Research Publications and Awards, Consultancy, Extension Activities, collaboration the distribution and provided valuable tips for improvement. He strongly recommended that the institution should prioritize guiding students towards research and innovation while also actively addressing challenges and solutions. This approach is essential for fostering the intellectual growth of students.

Dr. Jeetu Sharma, the Coordinator of the Internal Quality Assurance Cell (IQAC) at Mody University of Science and Technology (MUST), delivered a presentation titled 'Assessment and Accreditation Methodology in the Revised Accreditation Framework.' During the presentation, Dr. Sharma elucidated the various new revisions and underscored the significance of quality-focused assessment, online evaluation methods, and the evaluation process. She also addressed common constraints in this context.

Professor (Dr.) Prateek Bhanti (Dean, School of Engineering and Technology (SET), MUST) highlighted the significance of hosting an event of this nature and expressed his gratitude to all the distinguished speakers and members of the organizing committee for their valuable contributions.

The National Anthem and the vote of thanks by Dr. Surendra Singh Rajpurohit, the organizing secretary, have brought the seminar to a close.

7.6 Mody University Students and Faculty Visit to India's New Parliament Building

In a remarkable event on November 3, 2023, students and teachers from Mody University embarked on an unforgettable journey to India's new Parliament building. The exclusive invitation,

graciously extended by the Honorable Vice President, Shri Jagdeep Dhankar Ji, during his visit to Mody University, allowed the fortunate students to witness this iconic structure.

The visit included a tour of both the New and Old Parliament Buildings. Following the tour, the Honorable Vice President engaged with the students and teachers, delivering an encouraging speech that shed light on the functioning of the government. His words inspired everyone to embrace their roles as responsible citizens.

Coordinated by the School of Engineering and Technology, the trip hosted 43 students from various schools, accompanied by faculty members Dr. Sandeep Jaiswal (SET), Dr. Sheetal Yadav (SLAS), and Ms. Divya Seth (Mody School). The personal interactions with the Vice President made the experience even more special, leaving everyone awestruck and creating a cherished memory for a lifetime.





7.7 International Conference (ICASEM-2024) at Mody Univesity of Science and Technology Lakshmangarh Jointly organized with MNIT Jaipur and University of Mauritius (11 – 13 January, 2024)

School of Engineering and Technology, Mody University of Science and Technology, Lakshmangarh, Department of Mechanical Engineering, Malaviya National Institute of Technology (MNIT) Jaipur, and University of Mauritius (UoM) jointly organized *International Conference on Application of Recent Technologies in Science, Engineering, Management for Societal and Industrial Development (ICASEM-2024)* from 11.01.2024 to 13.01.2024 at Mody University, Lakshmangarh.

Organizing secretary: Dr. Vikrant Sharma and Dr. Mukul K Paliwal,

Department of Mechanical Engineering, SET.

From the initial 238 papers submitted, a rigorous review process led to the selection of 152 outstanding papers. Furthermore, we are delighted to report that 141 papers have been successfully registered for presentation.

Prof. N. P. Padhy (Chairman BoG & Director MNIT Jaipur), Prof. Sashi Bala Singh (President, Mody University), Prof. Prateek Bhanti (Dean SET, MUST), Prof S. G. Deshmukh (IIT Delhi), Prof. Suresh Sethi (The University of Texas), Prof Ravi Shankar (IIT Delhi),), Prof. G. S. Dangayach (General Chair, MNIT Jaipur), Prof.. D. S. Callychurn (General Chair, UoM), , Dr. M. L. Meena (Organizing Secretary, MNIT Jaipur), Dr. Vikrant Sharma (Organizing Secretary, MUST), Prof. Ravishankar, IIT Delhi, Prof. V. P. Wani, MET Nashik, Prof. Rakesh Premi, Manipal University, Prof. Mangeram, Dehradun graced the opening ceremony. The closing ceremony took place on 13 January 2024 at Sangeet Samrat Tansen Sabhagar, bringing together delegates, speakers, and organizers to reflect on the achievements of the conference and express gratitude to all participants.

In these three days event Keynote addresses presented by Prof. Suresh Sethi, The University of Texas; Prof S. G. Deshmukh, IIT Delhi; Prof Vijay K Jain, IIT Kanpur; Prof. Abhay Sharma, KU Leuven, Belgium; Prof Ravi Shankar, IIT Delhi; Prof. J Ramkumar, IIT Kanpur; Prof. S. P. Pandey, UET, Roorkee; Prof V P Wani, MET Nashik from esteemed institutes all over the world.



All presented papers are submitted in the following international journals (SCI/Scopus Indexed) for possible publication after their peer reviewed process:

Process Integration and Optimization for Sustainability (Springer);

Journal of Micromanufacturing (SAGE Publication);

Recent Patents on Engineering (Bentham Science Publisher);

Futuristic Technology for Sustainable Manufacturing (Book Chapter-IGI Global); International Journal of Information Security Science;

The Journal Tehnički Glasnik - Technical Journal (TG-TJ)

Sigma Journal of Engineering and Natural Sciences

7.8 IDEATHON 2024

AMRIT KAAL VIMARSH – VIKSHIT BHARAT@2047

Organized by

Innovation & Entrepreneurship Club

In collaboration with

Institution Innovation Council (IIC) & MU-Centre for Innovation Incubation & Entrepreneurship

(MU-CIIE), Center for Women Entrepreneurship, SoB &Team GDSC, SET

Date: February 27, 2024

Chief Guests and Speakers:

Vikram Sharma, Founder Director of Mystic Brains

Tarun Srivastava, Founder and CEO of Tishitu Technology and Research Private Ltd

In a vibrant gathering at Mody University of Science and Technology, the air resonated with the spirit of innovation as the Ideathon event unfolded, bringing together bright minds, esteemed dignitaries, and accomplished guests. The event beginning with the quote "Change is the law of life," set the tone for a morning dedicated to exchanging ideas and finding innovative solutions to contemporary challenges.

The hosts for the event, welcomed participants to Ideathon, emphasizing the event's role in fostering creativity, collaboration, and the pursuit of innovative solutions. The overarching theme of "Vimarsh Viksit Bharat" highlighted the university's commitment to meaningful discussions and developmental insights as a means to contribute to a developed and progressive India.

The spotlight on women entrepreneurship showcased Mody University's notable track record, with alumni successfully establishing ventures in various disciplines. The event commenced with a prayer to Goddess Saraswati, seeking her blessings for wisdom, knowledge, and creativity. The university's Kulgeet, a symphony of unity, knowledge, and pride, was played, symbolizing the spirit of the institution.

The highlight of the event was the presence of distinguished guests, including President Mody University, Prof.(Dr) Shashi Bala Singh who delivered an insightful address, steering the university towards excellence and embodying the spirit of leadership.

The event featured distinguished speakers, including Vikram Sharma and Tarun Srivastava, who shared invaluable insights and guidance with the participants.

The event commenced with opening remarks by the President, setting a tone of enthusiasm and inspiration for the attendees. Vikram Sharma, renowned as a Business Coach and the Founder Director of Mystic Brains, delivered an insightful session on “Skill India, start-up India and schemes available for women start-ups in India”. His wisdom and expertise in areas such as Leadership Skills, Marketing Strategies, and Business Development Planning provided the participants with valuable knowledge and motivation.

Following an engaging session lasting an hour, attendees enjoyed a refreshing tea break, providing an opportunity for networking and informal discussions. The post-break session delved deeper into the concept of Ideathon, elucidating how exceptional ideas could be nurtured and executed effectively. Speakers shared their perspectives and showcased some exemplary ideas, igniting the creative spark among the participants.

After lunch, the main highlight of the event unfolded as 21 students presented their innovative and creative startup ideas. These presentations allowed students to showcase their entrepreneurial prowess and problem-solving abilities. The panel members, comprising esteemed professionals and experts, attentively listened to each presentation, providing valuable feedback and insights.

The presentations showcased a diverse range of ideas, reflecting the students' ingenuity and creativity. Some notable ideas included:

1. Game on Tree Plantations
2. Gardening Problem
3. Convertible Resorts
4. Try On
5. An application to detect gas leaks

These ideas not only demonstrated innovation but also addressed pertinent challenges in various sectors, indicating the potential for impactful solutions. The selection committee select Eleven (11) ideas for next mentoring and final selection.

In conclusion, Ideathon 2024 - Amrit Kaal Vimarsh - Vikshit Bharat@2047 was a commendable initiative that fostered a culture of innovation and entrepreneurship among the student community. The event provided a platform for ideation, collaboration, and mentorship, paving the way for a brighter and more innovative future.

We are expression our sincere gratitude to Dean Academics: Dr Anil Suroliya, President IIC:

Dr Anirban Sengupta, IIC-Convenor: Prof. Sumit Kulshrestha, & IIC members: Dr.Mukul Kant Paliwal, Dr. Brajraj Singh, Prof. Hitesh Jangir, Prof. P K Vishnoi, Prof. Meha Khiraria, Prof. Manisha.

We extend our gratitude to the organizers, speakers, panel members, and participants for their contributions to making the event a grand success.



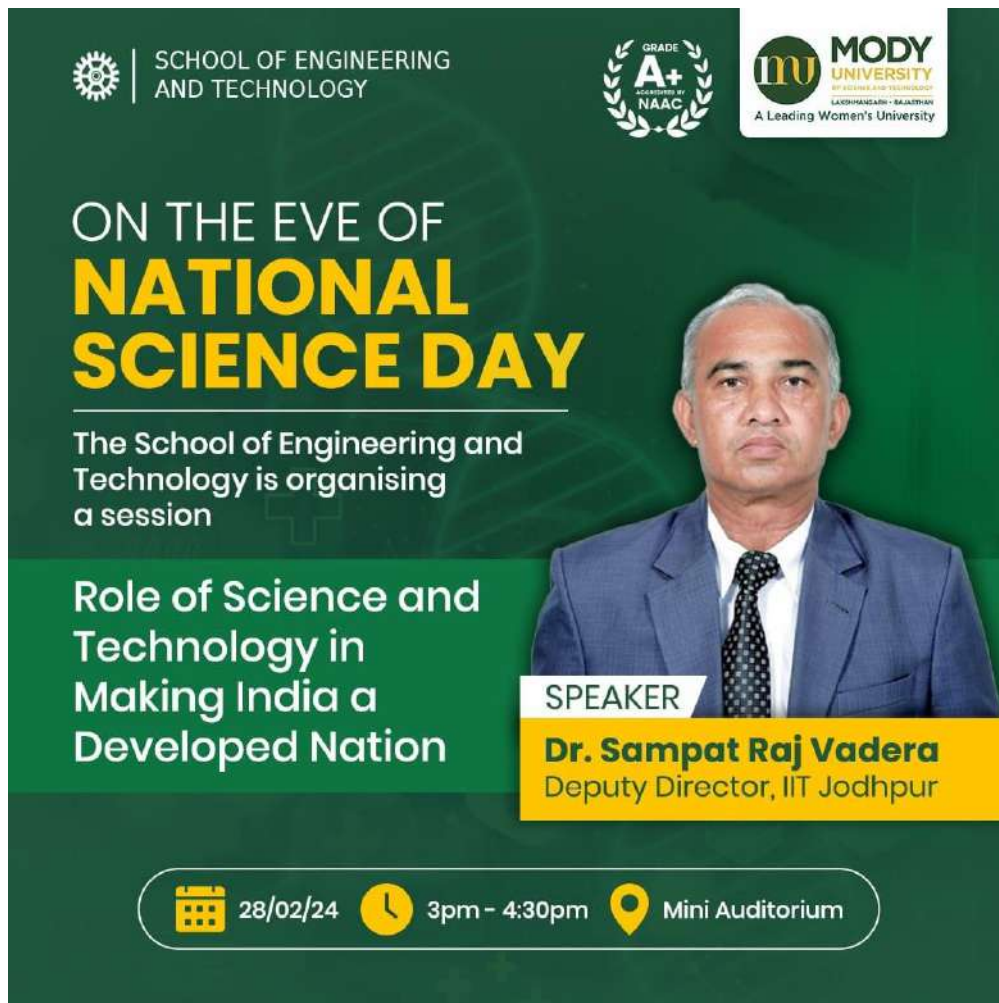




7.9 National Science Day Celebration

National Science Day is celebrated in India on February 28 each year to mark the discovery of the Raman Effect by Indian physicist Sir C. V. Raman on 28 February 1928. This event is celebrated all over India in schools, colleges, universities and other academic, scientific, technical, medical and research institutions.

The School of Engineering and Technology took initiative to mark this occasion by organizing a session at the Sangeet Samrat Tansen Sabhaghar on February 28th, 2024, from 3:00 PM to 4:30 PM. Titled "Role of Science and Technology in Making India a Developed Nation," the session was taken by Dr. Sampat Raj Vadera, Deputy Director of IIT Jodhpur, as the keynote speaker. Dr. Vadera delivered an insightful discourse, shedding light on the transformative potential of science and technology in nation-building endeavours. The session garnered significant participation, with approximately 230 students and faculty members attending, contributing to its success.



7.10 Career Counselling @ Sunrise Hostel, Sikar 21/03/2023

A team consisting of three faculty members, Dr. Vinod Maan, Dr. Jeetu Sharma and Ms. Nootan Verma visited Sunrise Girls hostel, situated in Sikar for the promotion of Mody University. The faculty members addressed the gathering of 48 girls' students after a brief meeting with the management of the hostel. During the lunch hours in their mess, the University promos and placement PPT were displayed on the projector. While dining with the students, the queries related to the admission process and placements were answered. The team invited the management of the hostel and students to visit mody university after JEE exam. The flyers and personalized university cups were distributed. A QR code containing the information about university courses was pasted on the notice board for future reference.

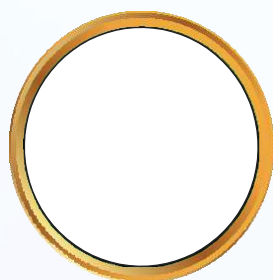


7.11 Career counselling @ Mahadev Girl's Hostel, Sikar (Rajasthan)

Admission Activity

A team consisting of two members, Ms. Priyanka Sharma and Dr. Somil Jain, visited Mahadev Girl's Hostel, situated in Sikar for the promotion of Mody University. The members addressed the gathering of 30 girl's students, while addressing with the students the queries related to admission process and placements were answered. The team invited the management and students of Mahadev Girl's Hostel to visit Mody University. The flyers and personalized university cups were distributed.





Mody University of Science and Technology

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