



E-MECH ZINE



XVI-TH ISSUE

JAN'2024-JUN'2024



PROMULGATION



PATHMAKER LEAGUE



JUKE BOX



COLLOQUIUM

MECHANICAL

ENGINEERING



JAN'2024-JUN'2024

MESSAGE

Coming together is a Beginning, Keeping together is progress, Working together is success"

We are here once again to welcome the readers to our "E-MECH ZINE. This is going to be a one step information guide on what's happening in our college & lots more!!!!!!

Well for unleashing a person's creativity a proper medium is prerequisite, the quintessence of which is nicely imprinted. In E-MECH ZINE students can expose their literary & artistic talents, Each issue of our magazine is a milestone that marks our growth, unfolds our imaginations, and gives life to our thoughts and aspirations. It unleashes a wide spectrum of creative skills ranging from writing to editing and even in designing the magazine.

Students have shown their talents through the section called "JUKE BOX" where we have the mixture of jokes, poems, paintings etc and we will be taking a dive into the technical happenings around the world through our articles on Innovations, Noble prize winners and great personalities which we are sure will keep you motivated!!!

We are very thankful to all Faculties & Students for their contributions in making this E-MECH ZINE a grand success. So sit back and enjoy browsing through the "E-MECH ZINE". Happy Reading Folks!!!!!!

---The Editorial Board



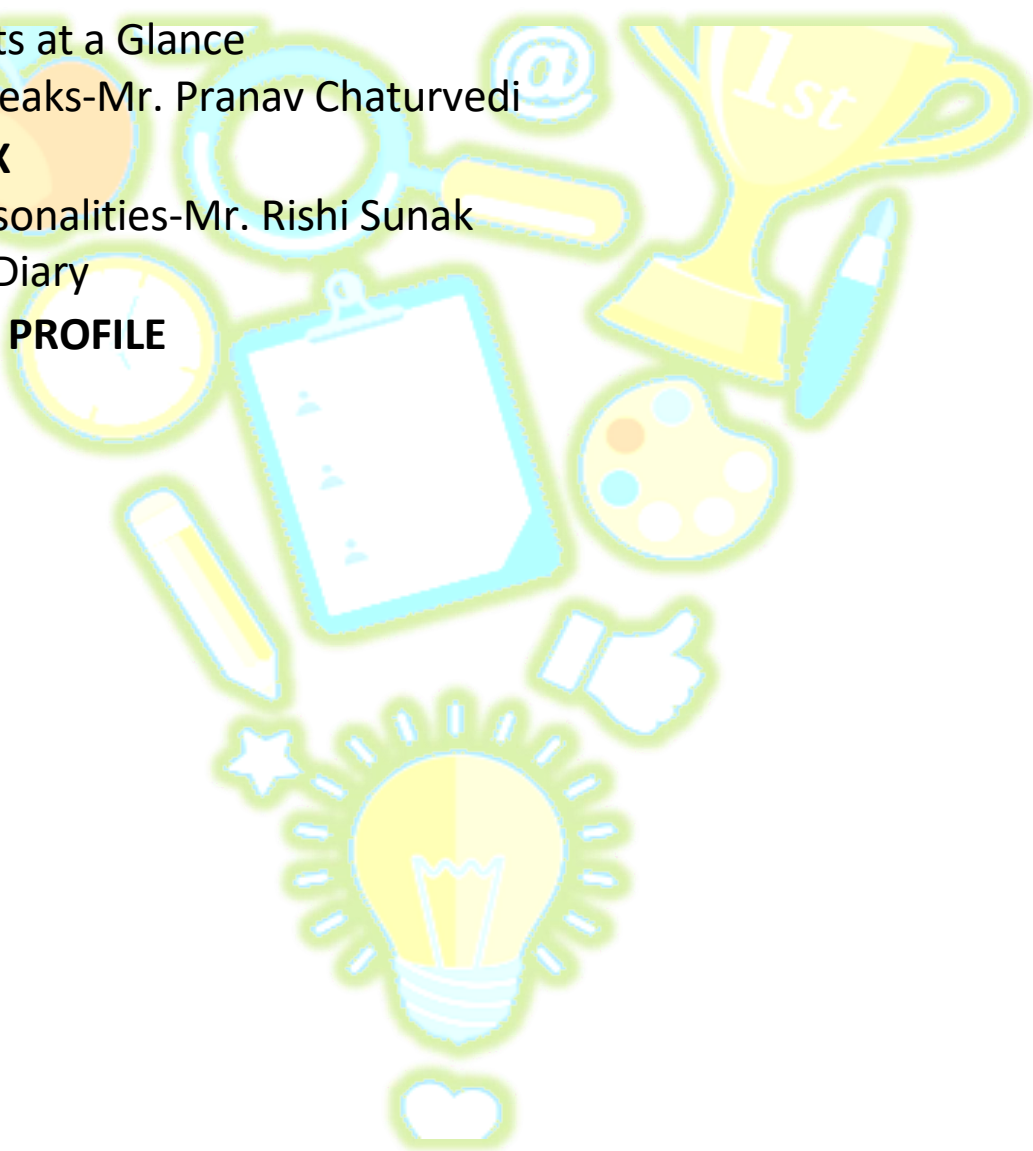


❖ MESSAGE	2
❖ Table of Contents---	3-4
❖ OPINE-A Pearl From The Torchbearer	5-7
❖ oDirector's Desk oPrincipal's Desk oHoD's Desk	
❖ Vision and Mission	8
❖ Program Outcomes	9
❖ Program Educational Objectives	10
❖ COLLOQUIUM---	
oTraining Course-Mr. Nimesh Baba	12-13
oBaja SAE India	14-17
oGuest Lecture-Mr. Utkarsh Natu	18-19
oGuest Lecture-Mr. Balkesh Chahar	20-21
oAlumni Talk-Mr. Nakul Dandotia	22-23
oWorkshop-CNC Machines	24-25
oATVC-2024	26-27
oGuest Lecture-Mr. Vedank Singhal	28-29
oWorkshop-Mr. Lalit Kumar Sharma	30-31
oQuizathone	32-33
oCareer Guidance-Dr. Fauzia Siddiqui	34-35
oGuest Lecture-Mr. Ravi Swami	36-37
oWorkshop-Mr. Ravi Swami	38-39
oIndustrial Visit-CIPET	40-41





oDebate	42-43
oNational Conference	44-45
oMechanical Exhibition	46-47
❖ PATHMAKER LEAGUE	
oJump Start Placements	49
oPlacements at a Glance	50
oAlumni Speaks-Mr. Pranav Chaturvedi	51
❖ JUKE BOX	
oIronic Personalities-Mr. Rishi Sunak	53
oFrom the Diary	54
❖ FACULTY PROFILE	55





JAN'2024-JUN'2024

OPINE- "A PEARL FROM TORCHBEARER"



MR. ARPIT AGRAWAL
DIRECTOR

I am extremely privileged to lead the institute which has become an undisputed pioneer in the field of Education and Research; not only in the country but also in the global arena.

"Knowledge gives humility, from humility, one attains character; From character, one acquires wealth; from wealth good deeds (righteousness) follow and then happiness."

We at JECRC continuously strive hard to reach the benchmark through latest teaching tools, world class training modules, exploration of new research avenues to meet with ever changing corporate and education scenario. One such feather added to the crown was the launch of "E-MECH ZINE" by Mechanical Engineering department.

All the students and faculties have perfectly groomed this magazine which clearly depicts confidence, creativity and innovation of our gems. "E-MECH ZINE" is a milestone that marks our growth, unfolds imagination and gives life to our thoughts and aspirations. Mechanical Engineering department has done a cherished work that had its roots in the persuasion. This communication will also establish a tread of acquaintance with our alumni who are doing wonders across the world and raising the flag of JECRC higher and higher, for which JECRC owes a lot to them.

Aristotle once said "Educating the mind without educating the heart is no education at all". We endeavour constantly to instil different qualities in our students. We feel proud that our students are growing into sensitive and responsible citizens of future.

I am overwhelmed by the team of hard working staff and learned faculty who have made me proud by creating such a masterpiece in the form of this magazine. I once again congratulate the entire team for their hard work and dedication.

Best wishes and Happy Reading!!!!!!!!!!





JAN'2024-JUN'2024

OPINE- "A PEARL FROM TORCHBEARER"



DR. V.K CHANDNA
PRINCIPAL

JECRC stands tall on the foundation of its excellent Vision and Mission being continuously achieved by its committed and deeply knowledgeable faculty, innovative and unique pedagogical tools and an eclectic and diverse student community that has a burning desire to make new paths of its own. There is no longer a single pathway to that end but whatever paths our students choose must be filled with efforts, dedication, relevance & relationships.

"E-MECH ZINE "by Mechanical Engineering Department of JECRC is indeed a great success giving out all the insights of the different, activities in college as well as in Mechanical Engineering Department. This initiative taken by the Department will facilitate the students with necessary information, record keeping as well as increasing student capabilities through active participation.

This magazine is the result of our creative & innovative team of Students & Faculties; it is our belief that engineering should be the experience of a life time. These experiences set the stage for success later in life and provide a lifetime of positive memories for our students. This institution has played a cascading role in the career and personality of innumerable students who have brought laurels to the college, state, and country.

May we continue to give our students strong roots like the Banyan Tree and stronger wings to conquer the world!!

I congratulate the Editorial team for their endless & sincere efforts in bringing out the publication & wish all the readers an enriched journey through the pages of E-MECH ZINE". Happy Reading!





JAN'2024-JUN'2024

OPINE- “A PEARL FROM TORCHBEARER”



DR. M.P SINGH
HOD, MECHANICAL

It gives me immense pleasure to lead the department of Mechanical Engineering. Our college is one of the premier institutions, unique like a prism reflecting the manifold shades of learning and co-curricular activities. JECRC is striving hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence.

With our Tenth Issue of E-MECH ZINE we put forward a distinctive blend of offerings in the areas of engineering & technology in the form of different activities throughout the year.

The very motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. Mechanical Engineering is an essence of today's world. We are committed of providing not only the technical education to our students but also the leadership qualities through which they can create employment to others. The education therefore, must catch up with these developments well in time so that Graduating students do not face the problem of obsolescence.

Our team in the department at JECRC focuses on holistic development of the students by a combination of both curricular and extra-curricular activities. We believe that to develop a tender mind we need to go beyond class room teaching to make the students industry ready and for that we never hesitate to go beyond the syllabus.

I congratulate the Editorial Board for their tireless efforts in bringing out this publication. I also extend my sincere thanks to the persons who have contributed to this issue and enhanced its perfection & beautification through articles, poems, inspiring stories etc.

I wish all the Students and Faculty a great academic career.





VISSION AND MISSION OF COLLEGE

VISSION OF COLLEGE

•To become a renowned centre of outcome based learning and work toward academic, professional, cultural and social enrichment in the lives of individuals and communities.

MISSION OF COLLEGE

- Focus on evaluation of learning outcome and motivate students to inculcate research aptitude by project based learning.
- Identity based on informed perception of Indian, regional and global needs and the areas of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

VISSION AND MISSION OF MECHANICAL DEPTT.

VISSION OF DEPARTMENT

•The Mechanical Engineering Department strives to be recognized globally for outcome based technical knowledge and to produce quality human resource, who can manage the advance technologies and contribute to society.

MISSION OF DEPARTMENT

- To impart quality technical knowledge to the learners to make them globally competitive mechanical engineers.
- To provide the learners ethical guidelines along with excellent academic environment for a long productive career.
- To promote industry-institute relationship.





PROGRAM OUTCOMES

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.





PROGRAM EDUCATIONAL OBJECTIVES

- To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.
- To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.
- To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues.
- To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful professional career.
- To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.

PSO-PROGRAM SPECIFIC OUTCOMES

PSO1. Apply the knowledge of material science, manufacturing, design and analysis to design Go- Kart and ATV (All Train Vehicles).

PSO2. Apply the knowledge of mechanical engineering and advance software to create 3D models, assembly, design and simulation.





COLLOQUIUM



TRAINING COURSE

A one-week course titled 'E-Vehicles: Challenges and Opportunities' was organized by the Department of Mechanical Engineering, Jaipur Engineering College and Research Centre, Jaipur for the students of mechanical engineering from 08.01.2024 to 13.01.2024. Mr. Yogesh Dubey and Mr. Lalit Kumar Sharma were the faculty coordinators of this course.

Mr. Yogesh Dubey Mechanical Engineering Department welcomed the resource person and participants to the course. He introduced the experts Sh. Nimesh Baba and Sh. Pummy Kumar with the participants during the inauguration. Dr. M. P. Singh (HoD, ME) graced the event along-with other faculty members.

The workshop was focused on the following aspects related to working, disassembling and assembling of electric vehicle.

- Introduction to working of different types of electric vehicles.
- Dismantling of Working Electric Vehicle, Dismantling and Reassembled BLDC Hub Motor, Dismantling and Assemble Electric Vehicle Hall Sensor, Dismantling and Assembling Whole Wiring of Electric Vehicle and check Continuity.
- Guidelines for Dismantling, Rearranging, checking of Battery Controller - BMS - Invertor System of Electric Vehicle.

Live demonstration were held every day and students were encouraged to get their 'hands dirty' by participating in dismantling and assembly of different components of E-Vehicles. The trainers were very informative and provided all the latest information and concepts related with working, disassembling and assembling of electric vehicle.

- There were query sessions for students to ask their doubt about the EV.
- There were 15 participants, who got benefitted.
- After successful completion students were awarded certificate.



JAN'2024-JUN'2024

TRAINING COURSE





BAJA-SAE INDIA-2024

Moonriders SAE Club, Jaipur Engineering College and Research Centre, Jaipur has been actively participating in many national and international automotive events to provide students real world experience in the field of automotive design and manufacturing. Continuing in this tradition, team Moonriders participated in BAJA-SAE India-2024 challenge, the premier collegiate level All-Terrain Vehicle (ATV) design and endurance event of India. The primary objective of BAJA SAE India has been to develop an understanding in the inquisitive minds of young engineers about entering the industrial reign. The event helps the students enlarge their knowledge in technical and practical domain, to fine tune problem-solving and planning skills and to enhance the managing capability.

BAJA-SAE INDIA is held in three phases throughout the year; the first round involves presentation and online Quiz by the participating teams, the second round is the virtual static and dynamic round that showcase uniqueness of ATV design and the third round is the physical round which includes technical inspection and endurance event. The event is held at National Automotive Test Track (NATRAX), Pithampur MP.

A team of 20+ students worked tirelessly for more than 8 months to analyse, design and manufacture the ATV at Moonriders workshop at JECRC college. Strict guidelines prescribed in BAJA-SAE India rulebook were followed and the vehicle was made as per the specifications provided. Team Moonriders also completed the gruelling first and second phase of BAJA-SAE India successfully during this period. After successfully completing the first and second phase and with the blessings of our mentors, the team left for the third phase of BAJA-SAE-India 2024.



BAJA-SAE INDIA-2024

The third phase which involves ATV race, was held from 10th January to 15th January 2024 at NATRAX off road testing track. The vehicle was packed securely and transported to the venue of competition.

On the first day of competition, team registration and other paperwork was completed. After the inauguration ceremony; participating teams met with the race officials at the venue and different stages of third phase were explained to all the participating teams. In total 87 colleges from all over India participated in the third phase including teams from IIT Indore, NIT Warangal, NIT Trichy. Team Moonriders was the only team from the state of Rajasthan that successfully completed phase one and phase two and participated in the physical event of BAJA-SAE India-2024.

The next day, on 11th January, Technical Inspection (TI) of all vehicles was done. First the weight of all vehicles was checked for compliance with weight limit and our vehicle was amongst one of the lightest vehicles participating. Afterwards the vehicle was tested for having the prescribed engine specifications.

On 12th January, it was the dynamic testing round. Vehicles had to undergo Toe Test, 4-wheel drive test, Suspension test, Design and Innovation test. The efforts of team members to repair the component remained unsuccessful. As the team didn't clear the entire dynamic test as per event requirements; the vehicle was not allowed to compete in the physical race on 13th January.

On 14th and 15th January, HR round was held for students by different sponsors like ANSYS, MathWorks, Valeo, KoshiMotors. Student members of team participated in the different rounds and gained valuable experience.



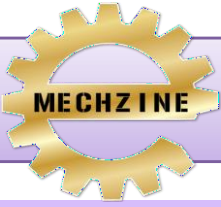
JAN'2024-JUN'2024

BAJA-SAE INDIA-2024



BAJA-SAE INDIA-2024





GUEST LECTURE

A guest lecture by Mr. Utkarsh Natu, Software Engineer, TCS-Ninza on the topic of "Computer Programming Languages and Their Industrial Applications" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 04.03.2024. Mr. Nitin Chhabra (Assistant Professor) & Mr. Hukam Chand (Assistant Professor) were the faculty coordinators of this event.

The guest lecture was focused on some very important points of Computer Programming languages like C, C++ out of which some are:

- What are various Computer Programming languages?
- Introduction to C, C++ and its applications?
- Importance of C, C++ for engineering fields.

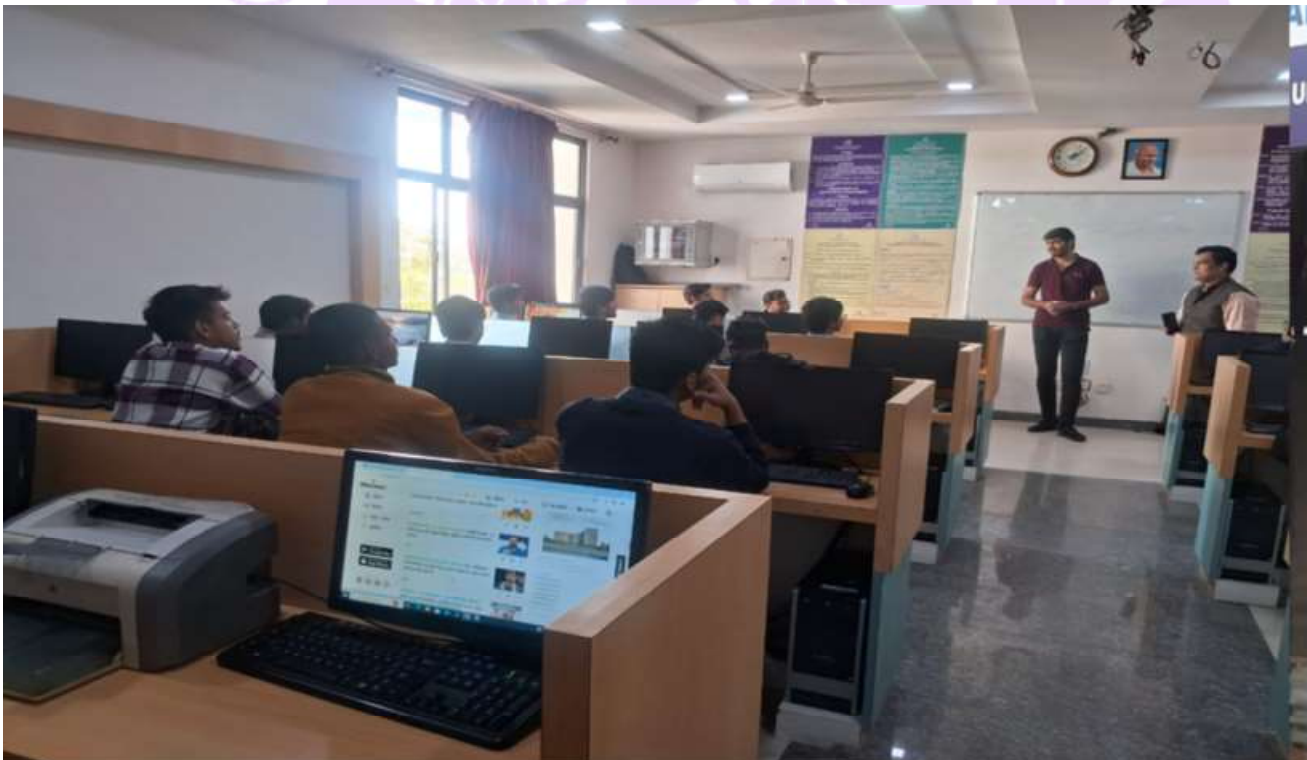
Industrial applications of C++ language:

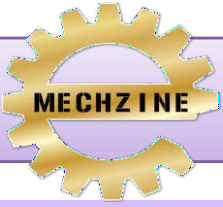
- Operating Systems. A high-level programming language built in the C programming language was used to construct the first operating system, which was UNIX.
- GUI (Graphical User Interface).
- Embedded Systems.
- Google.
- Design of a Compiler.
- Mozilla Firefox and Thunderbird.
- Gaming and animation.
- MySQL.



JAN'2024-JUN'2024

GUEST LECTURE





GUEST LECTURE

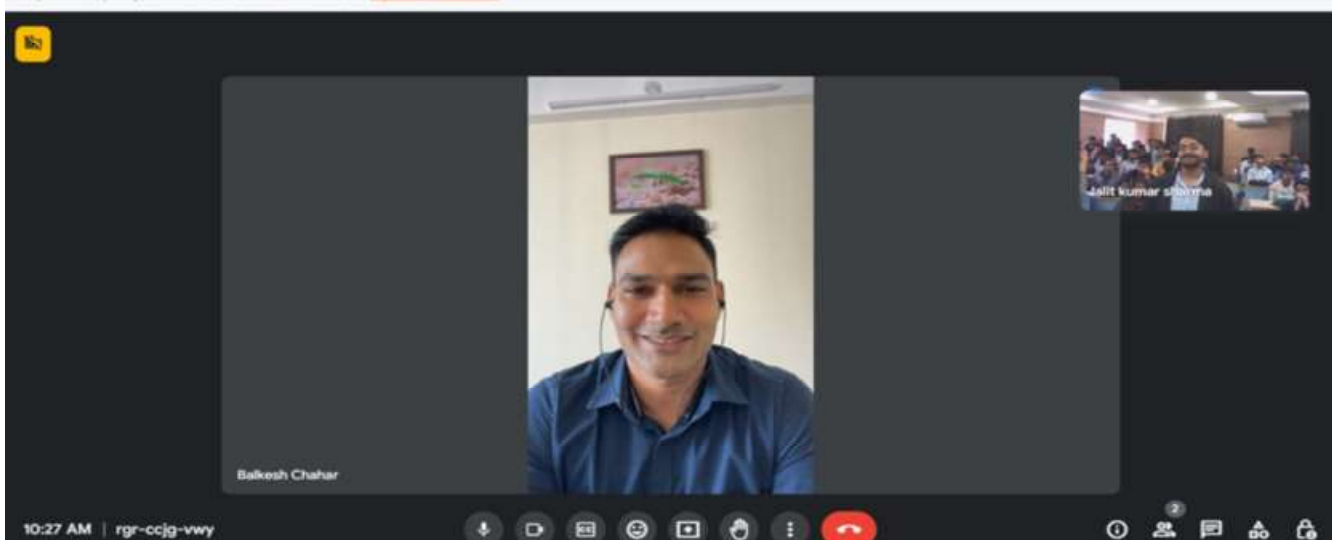
A guest lecture by Mr. Balkesh Chahar, Scientist-C, Indian Space Research Organization (ISRO) on the topic of "Campus to Cosmos: A Mechanical Engineer's Odyssey at ISRO" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 05.03.2024. The event was coordinated by Mr. Lalit Kumar Sharma (Associate Professor) and Mr. Yogesh Dubey (Assistant Professor). The guest lecture served as a beacon illuminating the intricate journey of a mechanical engineer within the expansive realm of the Indian Space Research Organization (ISRO). Its primary focus was to unravel the multifaceted contributions of mechanical engineering in propelling the frontiers of space exploration and allied ventures. Through a meticulously crafted discourse, attendees were immersed in a tapestry of insights, each thread intricately woven to elucidate the pivotal role played by mechanical engineers within ISRO.

At the outset, an expansive vista unfolded, offering a panoramic overview of ISRO's myriad missions and projects. From pioneering satellite launches to ambitious lunar and Mars missions, attendees were guided through a celestial odyssey, showcasing the agency's relentless pursuit of scientific excellence and technological prowess. This panoramic view set the stage, framing the subsequent discussions within the broader context of ISRO's visionary endeavors. Mr. Balkesh Chahar, a distinguished Scientist-C at ISRO, served as the vanguard, weaving narratives that underscored the indispensable contributions of mechanical engineers in shaping the agency's trajectory. Mr. Balkesh Chahar illuminated the pivotal role played by mechanical engineers in designing, fabricating, and optimizing the myriad systems integral to space missions.



JAN'2024-JUN'2024

GUEST LECTURE





ALMUNI TALK

A guest lecture by Mr. Nakul Dandotia, JECRC Alumni 2023 on the topic of "From Aspiration to Achievement: Preparing for GATE and Government Careers" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 13.03.2024. Mr. Nitin Chhabra (Assistant Professor) & Mr. Hukam Chand (Assistant Professor) were the faculty coordinators of this event.

The talk was focused on some very important points of Preparing for GATE and Government Careers.

Preparing for GATE (Graduate Aptitude Test in Engineering) and government job exams is a significant undertaking that requires dedication, strategic planning, and a comprehensive understanding of the subjects. Success in these competitive exams opens doors to prestigious institutions, lucrative job opportunities, and a stable career. This report outlines the essential steps and strategies for effectively preparing for GATE and government careers, from initial aspirations to achieving desired outcomes.

1. GATE Exam:

The GATE exam is a highly competitive test that assesses the understanding of various engineering and science subjects.

2. Government Jobs:

Government jobs are highly sought after due to their job security, attractive salaries, and additional benefits. They encompass various sectors, including administrative services, banking, defense, and public services.



JAN'2024-JUN'2024

ALMUNI TALK





WORKSHOP

A WORKSHOP by Shri Azmeera Balu and Shri Prasenjit Swain, Central Institute of Petrochemicals Engineering & Technology, Jaipur on the topic of "CNC Machines" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 14-15.03.2024. Mr.Lalit Kumar Sharma was the faculty coordinator of this event.

Day 1: JECRC College, 14.03.2024

The first day of the workshop commenced at JECRC College, focusing on foundational concepts of CNC Machines. Key topics covered included:

1. Introduction to CNC Machines
2. Applications in Mould Manufacturing
3. G-Codes & M-Codes
4. Programming on CNC Lathe

Day 2: CIPET Sitapura Jaipur, 15.03.2024

The second day of the workshop took place at CIPET Sitapura Jaipur, focusing on hands-on practical sessions and emerging technologies in the field of manufacturing.

- 1.Hands-on Practical Sessions on CNC Lathe Machines
- 2.Insightful Demonstration on 3D Printing



JAN'2024-JUN'2024

WORKSHOP





ATVC-2024

Moonriders SAE Club, Jaipur Engineering College and Research Centre, Jaipur has been actively participating in many national and international automotive events to provide students real world experience in the field of automotive design and manufacturing. Continuing in this tradition, team Moonriders participated in ATVC 2024 challenge, where 80 prominent colleges across the country participated.

ATVC 2024 was the 7th edition of this prestigious championship, scheduled to take place at the Nutan Maharashtra Institute of Engineering and Technology, Talegaon Dabhade, Pune. This year promised to be bigger and more exciting than ever, with participants expected from across the country.

- Location: Nutan Maharashtra Institute of Engineering and Technology, Talegaon Dabhade, Pune.

- Dates: 20th to 24th March, 2024

Key Highlights:

- Technical Inspections
- Dynamic Events
- Innovation Expo
- Workshops and Seminars
- Cultural Exchange:

In conclusion, ATVC 2024 promised to be a landmark event in the realm of off-road vehicle engineering, fostering competition, innovation, and camaraderie among participants and spectators alike.



JAN'2024-JUN'2024

WORKSHOP





GUEST LECTURE

A Guest Lecture by Mr. Vedank Singhal, Software Engineer, Newgen Software on the topic of "Charting Your Course: Effective Career Goal Planning" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 15.03.2024. Mr. Nitin Chhabra (Assistant Professor) & Mr. Hukam Chand (Assistant Professor) were the faculty coordinators of this event.

The talk was focused on some very important points of Career Goal Planning.

Career goal planning is an essential process for individuals aiming to achieve professional success and personal fulfillment. It involves setting clear, achievable objectives and devising a strategic plan to reach those milestones. Importance of Career Goal Planning:

1. Direction and Focus
2. Motivation and Engagement
3. Personal and Professional Growth

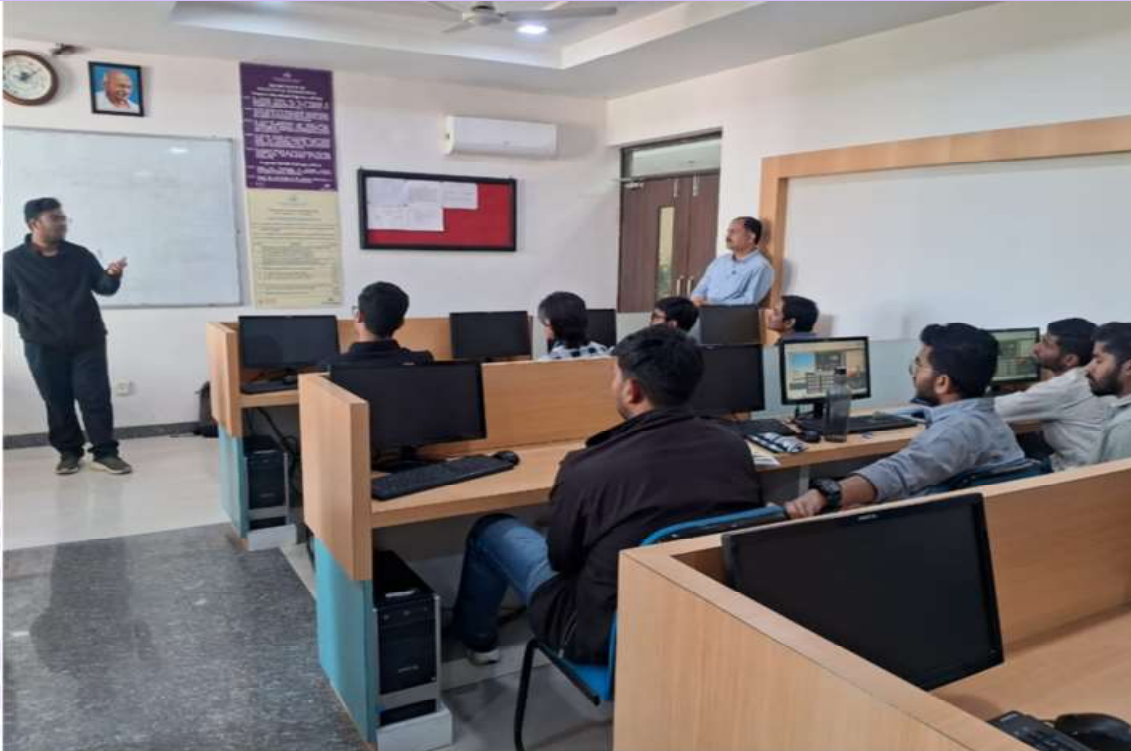
Steps for Effective Career Goal Planning:

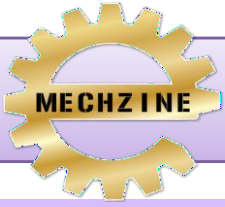
1. Self-Assessment:
2. Research and Exploration:
3. Setting SMART Goals:
4. Creating an Action Plan:
5. Seeking Support and Mentorship
6. Continuous Learning and Development



JAN'2024-JUN'2024

GUEST LECTURE





WORKSHOP

A Workshop by Mr. Lalit Kumar Sharma, Asso. Prof., ME, JECRC, Jaipur on the topic of "Designing Tools" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 29.03.2024.

The workshop aimed to enhance the certificate designing skills of staff members using Microsoft Word, focusing on creating professional and visually appealing certificates efficiently.

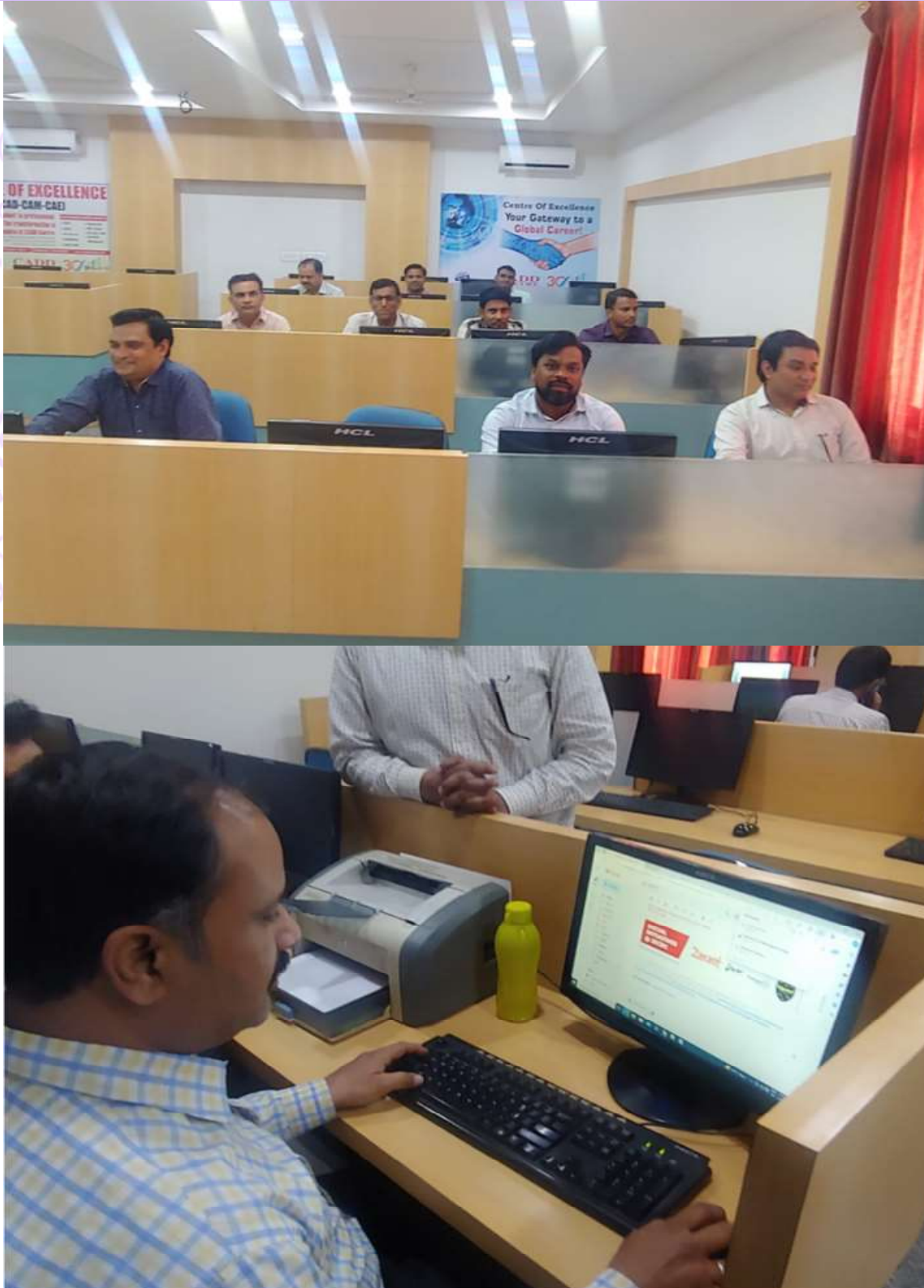
The workshop began with an introductory address by Mr. Lalit Kumar Sharma, Associate Professor in the Department of Mechanical Engineering, who welcomed participants and outlined the agenda. He stressed the importance of well-designed certificates in academic and professional settings, highlighting their role in reflecting institutional credibility and recognizing achievements.

Technical sessions were divided into foundational and advanced topics. Participants were first introduced to Microsoft Word's capabilities for certificate design, covering basic formatting techniques, layout considerations, and methods for integrating images and logos.

An interactive Q&A session allowed participants to seek clarification on specific design challenges and explore best practices for optimizing certificate layouts.

Feedback from participants underscored the workshop's practical relevance and effectiveness in improving their certificate designing proficiency. Many expressed newfound confidence in their ability to create impactful certificates using Microsoft Word.

WORKSHOP





QUIZATHON

A Quizathon by Mr. Abhishek Kumar, Asst. Prof., ME, JECRC, Jaipur on the topic of "Theory of Machines" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 04.04.2024.

The Theory of Machines Quizathon was a successful and enriching activity that provided students with a platform to showcase their understanding of machine theory. It served as a valuable supplement to their academic learning and contributed to their overall development as Mechanical Engineering students.

- The winners were awarded certificates of achievement and cash prizes.
- All participants received participation certificates.
- Participants found the Quizathon to be challenging yet engaging.
- Many expressed appreciation for the opportunity to test their knowledge and skills in the field of Theory of Machines.
- Suggestions were made for more interactive rounds in future editions of the event.



JAN'2024-JUN'2024

QUIZATHON





CAREER GUIDANCE

A Quizathon by Dr. Fauzia Siddiqui, Asso. Prof., ME, JECRC, Jaipur on the topic of "Placement Preparation" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 08.04.2024.

The career guidance session conducted by Dr. Fauzia Siddiqui aimed to empower participants with essential skills and knowledge necessary for effective placement preparation, focusing on enhancing their employability and readiness for professional opportunities.

Dr. Fauzia Siddiqui, an esteemed expert in career counseling, began the session by welcoming participants and setting the stage for an informative and engaging workshop. She outlined the session's objectives, emphasizing the proactive approach required for successful career planning and preparation in today's competitive job market.

The career guidance session led by Dr. Fauzia Siddiqui proved instrumental in enhancing participants' readiness for the job market through comprehensive training in resume building, interview skills, networking, and personal branding. It underscored the importance of proactive career planning and continuous skill development in achieving professional success.



JAN'2024-JUN'2024

CAREER GUIDANCE



Latitude: 26.781838
Longitude: 75.819219
Elevation: 406.55±2 m
Accuracy: 9.9 m
Time: 08-04-2024 13:02
Note: JECRC College

Powered by NoteCam



Latitude: 26.781833
Longitude: 75.819213
Elevation: 401.55±3 m
Accuracy: 9.6 m
Time: 08-04-2024 13:03
Note: JECRC College

Powered by NoteCam



GUEST LECTURE

A Guest Lecture by Mr. Ravi Kumar Swami , Director, Cademate Training and Technical Services Pvt. Ltd. on the topic of "Industrial Applications of Solidworks in Automotive Design " was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 09.04.2024.

A stimulating guest lecture titled "Industrial Applications of Solidworks in Automotive Design" was hosted by the Department of Mechanical Engineering at JECRC, Jaipur, on the 9th of April 2024. The lecture was aimed at providing mechanical engineering students with valuable insights into the practical applications of Solidworks, widely used computer-aided design (CAD) software, in the automotive industry. This enlightening session was coordinated by Mr. Lalit Kumar Sharma (Associate Professor) and Mr. Abhishek Kumar (Assistant Professor), who ensured the seamless organization of the event and its smooth execution.

Mr. Ravi Kumar Swami, an esteemed industry expert and the Director of Cademate Training and Technical Services Pvt. Ltd., graced the occasion as the guest speaker. With his extensive experience in the field of CAD and proficiency in Solidworks, Mr. Swami embarked on an illuminating discourse that delved deep into the intricate nexus between software technology and automotive design.

- Mr. Ravi Kumar Swami's expertise and engaging presentation style inspired attendees to leverage CAD technology effectively in their pursuit of excellence in automotive engineering.



JAN'2024-JUN'2024

GUEST LECTURE



Time: 09-04-2024 13:37
Note: JECRC FOUNDATION

Powered by NoteCam



Time: 09-04-2024 13:38
Note: JECRC FOUNDATION

Powered by NoteCam



Time: 09-04-2024 13:39
Note: JECRC FOUNDATION

Powered by NoteCam



WORKSHOP

A Workshop by Mr. Ravi Kumar Swami, Director, Cademate Training and Technical Services Pvt. Ltd. on the topic of "Solidworks: Hands-On Modeling Of Automotive Components" was organized by Department of Mechanical Engineering (JECRC, Jaipur) for 2nd and 3rd year students of mechanical engineering on 09.04.2024.

Workshop Overview: The workshop commenced with a warm welcome extended to Mr. Ravi Kumar Swami, followed by an introduction to the objectives and agenda for the day. Participants, comprising mechanical engineering students and faculty members, eagerly anticipated the opportunity to delve into the intricacies of Solidworks and its relevance in automotive engineering.

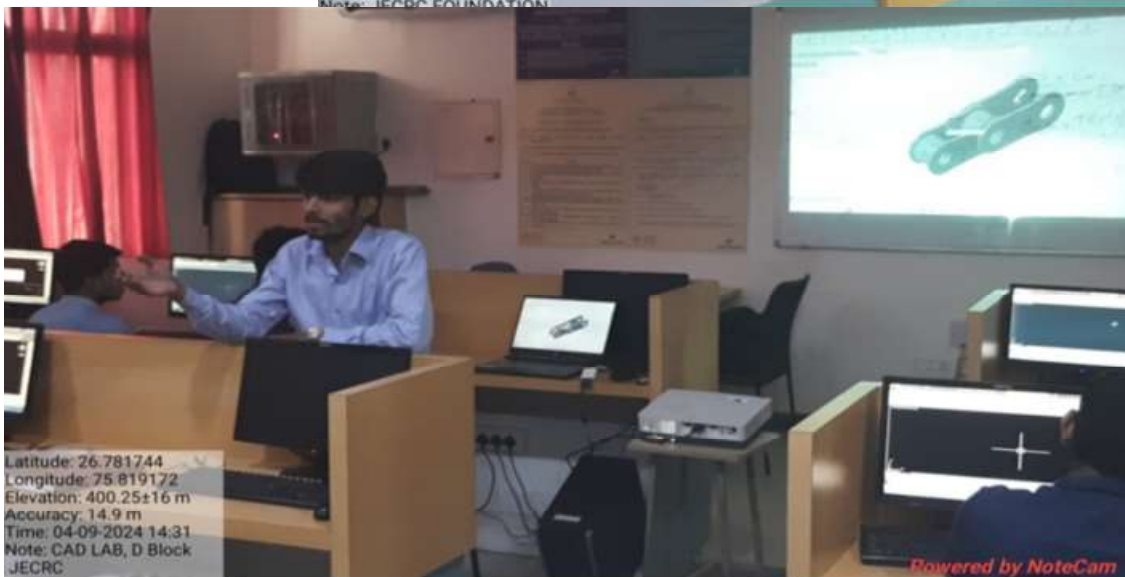
The one-day workshop on Solidworks: Hands-on Modeling of Automotive Components proved to be an enriching and rewarding experience for all participants. Through interactive sessions, practical exercises, and expert guidance from Mr. Ravi Kumar Swami, attendees gained invaluable insights into the application of Solidworks in automotive engineering and design.

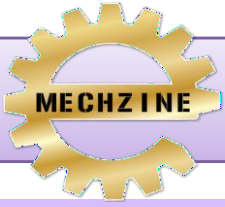
The workshop not only equipped participants with practical skills in CAD modeling but also instilled a sense of confidence and enthusiasm to explore further possibilities in automotive design using Solidworks. The collaborative learning environment fostered meaningful interactions, knowledge sharing, and skill enhancement, contributing to the overall success of the workshop.



JAN'2024-JUN'2024

WORKSHOP





INDUSTRIAL VISIT

The Industrial Visit to the Central Institute of Petrochemicals Engineering & Technology (CIPET) provided a valuable opportunity for students of Jaipur Engineering College and Research Centre (JECRC) to gain practical insights into the field of petrochemicals engineering and technology. Held on 15th March 2024 as part of the Workshop on CNC Machines, the visit aimed to acquaint students with the real-world applications of CNC machines and their role in the petrochemicals industry.

CIPET is a premier institute in Jaipur dedicated to training, research, and development in the field of petrochemicals engineering and technology. The institute offers state-of-the-art facilities and expertise in areas such as polymer processing, testing, design, and CAD/CAM services.

During the visit, students were given a tour of CIPET's facilities, which included advanced laboratories equipped with modern CNC machines, injection molding machines, extruders, and testing equipment. The institute's infrastructure demonstrated its commitment to providing hands-on training and practical exposure to students.

Overall, the visit was a resounding success, thanks to the support and cooperation of CIPET staff and faculty members. It served as a testament to the importance of industry-academia collaboration in preparing students for the challenges and opportunities of the modern industrial landscape.



JAN'2024-JUN'2024

INDUSTRIAL VISIT



Ramchandpura, Jaipur Division | 2024.03.15 12:55



Shri Kishanpura, Jaipur Division | 2024.03.15 11:17



DEBATE

On 16th April 2024, the Mechanical Engineering Department at Jaipur Engineering College and Research Centre organized a Debate Competition on a Current Issue. The event aimed to provide a platform for students to express their views and opinions on relevant topics while honing their public speaking and debating skills. Mr. Satya Prakash Saini & Mr. Dayal S. Rathore, faculty member, took the responsibility of coordinating the competition and ensuring its smooth conduct.

The Debate Competition on the current issue conducted by the Mechanical Engineering Department was a resounding success. It provided an excellent opportunity for students to express their viewpoints, enhance their public speaking skills, and gain valuable experience in critical thinking and argumentation. The event fostered a healthy academic atmosphere, promoting intellectual discussions on contemporary issues.

The Mechanical Engineering Department extends its gratitude to Mr. Satya Prakash Saini & Mr. Dayal S. Rathore, the faculty coordinator, for efficiently organizing the competition and ensuring its smooth execution. The participation and enthusiasm shown by the students contributed to making the event a memorable and enriching experience for all. Such activities play a vital role in shaping well-rounded engineers with the ability to articulate and debate on complex issues, preparing them for future challenges in their careers and beyond.



JAN'2024-JUN'2024

DEBATE





NATIONAL CONFERENCE

The Department of Mechanical Engineering at Jaipur Engineering College and Research Centre organized the 8th National Conference on Futuristic Trends in Mechanical Engineering (NCFTME-2024) from 07th to 08th May 2024. Dr. M. P. Singh and Dr. Fauzia Siddiqui served as the esteemed conveners of the conference, supported by Dr. Manoj Gupta and Mr. Lalit Kumar Sharma as co-conveners.

The keynote address was delivered by Dr. Ashok Kumar Sharma, a distinguished Professor from Manipal University, Jaipur, renowned for his expertise in Manufacturing Technology, Outcome-based Education, and Production Technology, with over 20 years of experience in academia and industry.

Dr. Sharma's keynote speech centered around the significance of outcome-based education in the context of modern mechanical engineering and its relevance in contemporary life. He elucidated on the diverse career paths available to mechanical engineering graduates and outlined strategies for achieving career goals, particularly in the realm of research and innovation.

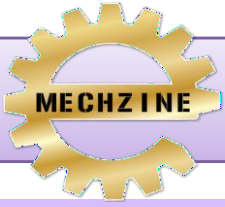
In conclusion, NCFTME-2024 proved to be a resounding success, fostering a spirit of inquiry and learning among the future mechanical engineers of Jaipur Engineering College and Research Centre. The conference not only broadened the students' horizons but also inspired them to aspire to greater heights in their academic and professional pursuits.



JAN'2024-JUN'2024

NATIONAL CONFERENCE





EXHIBITION

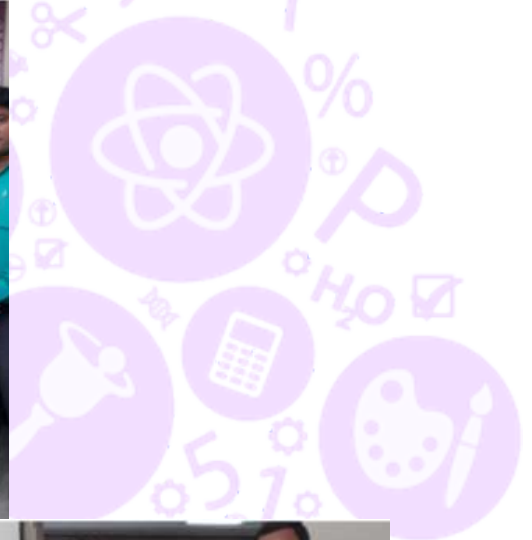
The Mechanical Workshop Project Exhibition held on the vibrant morning of May 22, 2024, showcased the remarkable talents and ingenuity of first-year engineering students across all branches. The event, hosted in D-Block, provided a platform for students to exhibit their innovative projects, focusing on principles of basic manufacturing process like carpentry, fitting, foundry, welding, machining, and tin smithy.

The event commenced with an inaugural ceremony graced by esteemed guests: Prof. (Dr.) Vinay Kumar Chandna, Principal and Sh. Manish Jain, Deputy Director, Special Projects. Their presence served as a source of inspiration for the participating students, emphasizing the importance of their creative endeavors in shaping the future of engineering excellence.

Following the inauguration, a distinguished panel of judges, comprising Dr. Ruchi Mathur, Dean, First Year and Dr. Manish Srivastava, Head, Outset Placement, meticulously evaluated each project. Engaging with students, they delved into the motives and intricacies behind the creations, fostering insightful discussions on engineering ingenuity.

As the event drew to a close, Dr. M.P. Singh, Head of Mechanical Engineering Department, extended heartfelt gratitude to all participants, judges, and visitors for their invaluable contributions to making the competition a resounding success. With renewed zeal and a deeper understanding of the importance of engineering skills, students departed, eager to continue their journey towards a more sustainable future.

EXHIBITION





PATHMAKER LEAGUE

پتھ میکر لیگ



JAN'2024-JUN'2024



proudly announces

Incredible 322 Placement Offers in **Core Branches**

as on 15th Jan., 2024 | Batch of 2024

ECE

Highest Package
17.5 LPA

108 Offers

EE

Highest Package
7.1 LPA

99 Offers

ME

Highest Package
13.84 LPA

74 Offers

CE

Highest Package
7.5 LPA

41 Offers

17.5 LPA

Highest Package for Core Branches so far

5.5 LPA

Average Package for Core Branches so far

55 Students

Above **6.0 LPA** for Core Branches so far

1368

offers across all branches
for the batch of 2024 so far



JAN'2024-JUN'2024

PLACEMENTS AT A GLANCE

Placements in Core Companies

PINNACLE INFOTECH	5
FLIPKART	1
NTF	11
KOHLER	2
D2O	2
E OXYGEN AUTOMOTIVE PVT. LTD.	6
MARUTI (OFF-CAMPUS)	1
PAPRIWAL GROUP	2
ACS INTERNATIONAL	3
EQUAL	3
MINIMALIST	1
EV CLINIC	1
TORRENT GAS	1
VIJAY AUTOMOBILE	2
TOTAL	41

Jaipur Engineering College and Research Centre



PLACEMENT WITH PACKAGE

S.NO.	NAME OF COMPANY	NO. OF SELECTION	PACKAGE(LPA)
1	FLIPKART	1	13.84
2	PLANET SPARK	1	6.5
3	NTF	11	4
4	ACADEMOR	5	6
5	LEARN AND BUILD	3	4.5
6	CAPITAL VIA	1	3.5
7	JUST DIAL	1	4
8	TRANSFUNNEL	1	6
9	KOHLER	2	4.5
10	D2O	2	3
11	E OXYGEN AUTOMOTIVE PVT. LTD.	6	5
12	PAPRIWAL GROUP	2	4.8
13	ACS INTERNATIONAL	3	5
14	EQUAL	3	3.5
15	MINIMALIST	1	5
16	EV CLINIC	1	5
17	MARUTI (OFF-CAMPUS)	1	5.6
18	TORRENT GAS	1	4.2
19	PINNACLE INFOTECH	5	3.5
20	VIJAY AUTOMOBILE	2	3.6



Pranav Chaturvedi
(2004-2008)

For me the four years from 2004-2008 has been a transformation journey and not less than a roller coaster ride. The days usually starts with academics ends up late night preparing for some other events happening be it —new beginning, be it blood donation and many others. The brilliant faculties of mechanical engineering department Manish sir, M. P. sir and the director of the institution Arpit Sir has left no stone unturned in making our transition from campus to corporate smoother, easier and faster. With all the guidance I managed to get placed from college not in one, not two but four organizations of repute and chose IT industry to start my corporate journey. I specialized in Pharmacy, Financial Services, Manufacturing, CPG and my Functional areas are Marketing & Customer analytics, Supply Chain, Revenue Assurance, External Data Monetization with a firm focus on commercial value addition. My highlights are Seasoned management consulting & digital transformation professional with experience spanning across multiple geographies & domains Subject matter expert on application of data driven analytics to solve business/commercial problems. Expertise in leveraging technology & AI/ML solutions for business problem solving. Extensive experience of working with senior executives in defining strategy, providing thought leadership, creating new business solutions and leading large teams to implement improved business processes. Solution Architect, P&L Management, Program Management, Team Management.

Pranav Chaturvedi
(2004 - till today)



JAN'2024-JUN'2024



JUKEBOX





Rishi Sunak

Rishi Sunak (born 12 May 1980) is a British politician who served as Prime Minister of the United Kingdom and Leader of the Conservative Party from 2022 to 2024. Following his defeat to Keir Starmer's Labour Party in the 2024 general election, he became Leader of the Opposition, serving in this role from July to November 2024. He previously held two Cabinet positions under Boris Johnson, latterly as Chancellor of the Exchequer from 2020 to 2022. Sunak has been Member of Parliament (MP) for Richmond and Northallerton, previously Richmond (Yorks), since 2015. Sunak was born in Southampton to parents of Indian descent who immigrated to Britain from East Africa in the 1960s. He was educated at Winchester College, studied philosophy, politics and economics at Lincoln College, Oxford, and earned a Master of Business Administration from Stanford University in California as a Fulbright Scholar. During his time at Oxford University, Sunak joined the Conservatives. After graduating, Sunak worked for Goldman Sachs and later as a partner at two hedge fund firms. Sunak was elected to the House of Commons at the 2015 general election. As a backbencher, Sunak supported the successful campaign for Brexit in the 2016 European Union membership referendum. Sunak was appointed to the junior ministerial position of Parliamentary Under-Secretary of State for Local Government by Theresa May in 2019, and was appointed to the cabinet-attending role of Chief Secretary to the Treasury by Johnson in 2019.



If you think you are beaten, you are.

If you think you dare not, you don't.

If you like to win but think you can't,

It's almost a cinch you won't.

If you think you'll lose, you're lost.

For out in the world we find

Success begins with a fellow's will.

It's all in the state of mind.

If you think you are out classed, you are.

You've got to think high to rise.

You've got to be sure of your-self before

You can ever win the prize.

Life's battles don't always go

To the stronger or faster man.

But sooner or later, the man who wins

Is the man who thinks he can.



JAN'2024-JUN'2024

FACULTY PROFILE

DEPARTMENT OF MECHANICAL ENGINEERING



DR. M. P. SINGH
PROFESSOR & HOD



SHRI MANISH JAIN
ASSOCIATE PROFESSOR



**DR. FAUZIA
SIDDIQUI**
PROFESSOR & DY. HOD



DR. MANISH SRIVASTAVA
ASSOCIATE PROFESSOR



**DR. BHUVNESH
BHARADWAJ**
ASSOCIATE PROFESSOR



DR. MANOJ GUPTA
ASSOCIATE PROFESSOR



DR. MANMOHAN SIDDH
ASSOCIATE PROFESSOR



MR. LALIT KUMAR
ASSOCIATE PROFESSOR



**MR. HUKAM
CHAND NAGAR**
ASSISTANT
PROFESSOR



**MR. DAYAL
SINGH RATHORE**
ASSISTANT
PROFESSOR



**MR. RAVI
YADAV**
ASSISTANT
PROFESSOR



**MR. NITTIN
CHHABRA**
ASSISTANT
PROFESSOR



**MR. DILIP
KR. PARAJAPATI**
ASSISTANT
PROFESSOR



**MR. ABHISHEK
KUMAR**
ASSISTANT
PROFESSOR



**MR. SATYA
PRAKASH SAINI**
ASSISTANT
PROFESSOR



**MR. JITENDRA
GUPTA**
ASSISTANT
PROFESSOR



**MR. AKHILESH
PALIWAL**
ASSISTANT
PROFESSOR



**MR. YOGESH
DUBEY**
ASSISTANT
PROFESSOR



**MR. HANUMAN
PRASAD SAINI**
SR. LAB
INSTRUCTOR



**MR. RAJENDRA
NARUKA**
SR. LAB
INSTRUCTOR



**MR. NARANDRA
SINGH**
LAB
INSTRUCTOR



**MR. BIR
SINGH SIROWA**
LAB
INSTRUCTOR



**MR. HEMANT
CHIPPA**
LAB
INSTRUCTOR



JAN'2024-JUN'2024

EDITOR'S DESK



Mr. Yogesh Dubey
(Deptt. of Mechanical Engineering)
Editor

*We hope that you loved browsing through the E-Mech Zine
& we sincerely welcome your suggestions for the
improvement...*

Thank You !!!!!!!!!!!




JECRC^{TV}

JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

JECRC Campus, Shri Ram Ki Nangal, via Sitapura RIICO, Tonk Road, Jaipur, 302022

Contact No. : 0141 2770232, 0141 5133338/39

Website : www.jecrcfoundation.com

E-mail Id. : info@jecrcmail.com