



E-MECHZINE



SIXTH ISSUE **JAN-JUN 2019**



Promulgation



Pathmaker league



Juke Box



Colloquium



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-MECHZINE. 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-MECHZINE 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-MECHZINE a grand success. So sit back and enjoy browsing through the "E-MECHZINE". Happy Reading Folks!!!!!!

---The Editorial Board



JAN-JUN 2019

We Proudly Announce to be



Accredited Branch for the Next 3yrs

Congratulations

To all the Faculties & Students for the great
grand Achievement which wouldn't have been
possible without you all.

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❖ **Faculty Profile**



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-MECHZINE" 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-MECHZINE" 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!!!!!!!!!!

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-MECHZINE" 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-MECHZINE". Happy Reading!

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 Sixth Issue of E-MECHZINE 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 OBJECTIVES

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.



JAN-JUN 2019

PROMULGATION

“A RHYTHM OF EVENTS”



STUDENT ACHIEVEMENTS

SEMESTER TOPPERS

<u>SEMESTER</u>	<u>SHIFT</u>	<u>NAME</u>	<u>%</u>
IIIrd	Ist	Abhishek Banthiya	94.7
	IIInd	Jinesh	86.9
Vth	Ist	Divik Mathur	79.2
	IIInd	Aditi Gupta	82.4
VIIth	Ist	Mohit Sharma	80.7
	IIInd	Krishan Kant Gupta	81.6

A ROBOT FOR WATERING PLANTS

Texas Instruments & Indian Institute of Science & Technology organized a National Level Competition . In which students of JECRC got selected ifor their project entitled “ Smart Grading System”.

It includes a Robot capable of watering on the road side pavements & having self charging capability.

Chirag Maheshwari Student of Mechanical Deptt. VI Sem was among the Team Members.



राष्ट्रीय स्तर की परियोजना प्रतियोगिता में छात्रों की परियोजना का चयन



जयपुर (काशी)। टेक्सास इंस्ट्रुमेंट्स और इंडियन इंस्टीट्यूट ऑफ साइंस और टेक्नोलॉजी द्वारा आयोजित राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ। छात्रों की परियोजना का चयन राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ। छात्रों की परियोजना का चयन राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ।

पौधों में पानी डालेगा रोबोट!

टीम मिलेगी पीएम से
कैनी न्यूज, MAX रिपोर्टर, जयपुर। टेक्सास इंस्ट्रुमेंट्स एवं इंडियन इंस्टीट्यूट ऑफ साइंस और टेक्नोलॉजी द्वारा आयोजित राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ। छात्रों की परियोजना का चयन राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ।



आवश्यकतानुसार पानी को मात्रा के अनुसार पानी देता है। यह यंत्रक के डिजाइनर मयंक पटेल हैं। इस प्रोजेक्ट में एक रोबोट स्वयंचालित रूप से विकसित। छात्रों की परियोजना का चयन राष्ट्रीय स्तर की परियोजना प्रतियोगिता में जयपुरी छात्रों की परियोजना का चयन हुआ।

VOCALIZE- THE OPEN MIC



Tarun Dubey Student of Mechanical Engineering gave his mesmerizing performance on 19 January at The Yellow House, Jaipur

MOONRIDERS @ SAE BAJA

Team Moonriders from JECRC has cleared the Brake Test & other events such as Acceleration, Maneuverability & sled pull. The Team has shown its strong presence in the event by being the only team from Rajasthan to reach the final stage of the competition in which 82 teams out of 120 teams will be competing against each other in a 4 Hour race. Team scored 52nd position among of total 120 teams & 4th among the 15 new teams.



MOONRIDERS @ SAE BAJA

Team Moonriders, JECRC won the AUTOCROSS and lightweight title in NEKC for their first ever Electrical Go Kart design.

With pride Team Moonriders, JECRC shared their victory with Shri Arpit Agrawal, Director, JECRC Foundation, Sh. M.L Sharma Vice-Chairman JECRC Foundation, Dr. M.P Singh HOD Mechanical & Mr. Kuldeep Sharma TPO Mechanical.



SPORTS @ GLANCE

Mechanical Engineering Department student Poonam Kumari VI sem M.E participated in Volley Ball & Saurabh Gupta VIII Sem in Badminton M.E at various Colleges.

1-2 Feb — VolleyBall Jaipuria Institute of Management –2 nd Rank.

14-16 Feb— JU Verve @ JECRC University, Jaipur.

22-24 Feb— JKLU Tournament.-3rd Rank.

25-27 Feb— SKIT Tournament.

Sourabh got 1st Rank @LNMIT& 2nd Rank @ SKIT.



NATIONAL WELDING LEAGUE 8-03-2019

It was the moment of immense pride as the Girls of JECRC Aditi, Diya and Shubhada from Mechanical Engineering Department won the THIRD PRIZE in NATIONAL WELDING LEAGUE OF WOMEN STUDENTS NATIONAL COMPETITION conducted in collaboration with AICTE, IIW and M/s Fronius in C.V. Raman College of Engineering, Bhubaneswar. The team has shown its strong presence in the event by being the only team from RAJASTHAN and reach the final stage of competition out of 88 participants.



FACULTY ACHIEVEMENTS

GUEST LECTURE BY DR. FAUZIA SIDDIQUI @SCE MUMBAI

Dr, Fauzia Siddiqui Dy. HoD M.E gave Guest Lecture "Advancement in the area of Industrial Engineering" on 18 January at Saraswati College of Engineering, Mumbai.



NATIONAL YOGA DAY BY DR MANISH SRIVASTAVA

On the occasion of National Yoga Day Dr. Manish Srivastava was invited for special session at Government Sr. Sec School, Jaipur.



WORKSHOP CUM TRAINING @ IIT MANDI

By- Mr. Rohit Goyal

A short term course cum training on “Advance Lithography Device Fabrication” was attended by Mr. Rohit Goyal at IIT Mandi from 25th June – 2nd July.



Faculty Publications & Achievements

1. Dr. M.P Singh HoD M.E Research Paper entitled "An ISM approach to Performance Indicators of Sustainable Manufacturing through Micmac Analysis in Indian manufacturing Industry" got selected in Elsevier SSRN series through (SUSCOM-2019) to be held in Amity University Rajasthan during February 26-28, 2019.
2. Dr. M.P Singh has been appointed as the Reviewer of Journal of Production & Manufacturing Research.
3. Mr. Devesh Kumar Research Paper entitled "Material-structure-property correlation of spark plasma AlCuCrFeW high-entropy alloys" got Published in Journal of Material Research .
4. Dr. Manmohan Siddh got his PhD awarded from MNIT Jaipur.
5. Dr. M.P Singh HOD M.E published his paper entitled "Development of Mathematical Model & Process Optimization of Deep Groove Ball Bearing" in ICACM-2019.
6. Dr. M.P Singh HOD M.E published his paper entitled "Descriptive Analysis through Survey for Sustainable Manufacturing" in ICACM-2019.
7. Dr. Devesh Kumar got his PhD awarded from MNIT Jaipur.
8. Mr. Rohit Goyal got his Research paper "fast responsive soft bio-mimetic robotic actuators" published in the materials today : proceedings - journal - Elsevier volume 15 , part 2 , 2019 , page 300-308 .
9. Dr. M.P Singh HoD M.E Research Paper entitled "Noise Reduction of Deep Groove Ball Bearing (6205) by Process Optimization - An Experimental" got Published in International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8 Issue-5, June (1052-1061) (Scopus Index Journal) .
10. Dr. M.P Singh HoD M.E Research Paper entitled "Barriers analysis for sustainable manufacturing implementation in indian manufacturing industries using interpretive structural modelling" got published in International Journal of Advanced Research in Engineering and Technology (IJARET), Volume-10, Issue-3, May-June-2019, ISSN No.: 0976-6480.(IF:1.568)[27-35]. (UGC Approved Journal ,48673) (Thomson Reuters)

11. Dr. M.P Singh HoD M.E Attended an International conference as session chair on “Advancements in computing and management”, Organised by Jagannath University Jaipur in collaboration with Elsevier SSRN Publication on 13-14 April, 2019.
12. Mr. Lalit Kumar Sharma attended 2 day TEQIP on “Green Buildings” organised by RTU at GIT,Jaipur.
13. Dr. M.P Singh HoD M.E Organized and attended 2nd International Conference on Recent Innovation and Technological Development in Mechanical Engineering (RITDME 2019),during April 5-7 2019.in JECRC with association of IFO and IJSER.
14. Mr. Lalit Kumar Sharma attended a short term course “FEMEIA 2019” at MNIT Jaipur.
15. Mr. Lalit Kumar Sharma attended a short term course “FEMEIA 2019” at MNIT Jaipur.
16. Dr. M.P Singh HoD M.E & Mr. Manish Jain Research Paper entitled “ Analysis of pyrolysis oil production from plastic waste” paper present in 2nd International Conference on Recent Innovation and Technological Development in Mechanical Engineering (RITDME 2019),during April 5-7 2019.in JECRC with association of IFO and IJSER.
17. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Study of Sliding Wear Behavior of Alumina Oxide Filled Fiber Composite Using Design of Experiment” published at a conference in amity University.
18. Dr. Fauzia Siddiqui got his research paper entitled “The Pathway to Zero Waste: Case Study of Saudi Arabia’s Solid Waste Management Techniques” paper published in 2nd (ICRITDME 2019),during April 5-7 2019.in JECRC with association of IFO and IJSER.
19. Dr. Fauzia Siddiqui got his research paper entitled “Roadmap for future : Vision 2030 and its Impact on Saudi Arabia's Energy Sector” paper published in 2nd (ICRITDME 2019),during April 5-7 2019.in JECRC with association of IFO and IJSER.
20. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Modeling based experimental investigation on polymerization shrinkage and micro-hardness of nano alumina filled resin based dental material” published in Elsevier Journal of the Mechanical Behavior of Biomedical Materials.

70th REPUBLIC DAY@JECRC

Braving the cold wave, JECRCians gathered to celebrate the biggest festival of our republic, our 70th Republic Day on 26th Jan 2019.



NATIONAL VOTER'S DAY @ JECRC

This year, JECRC celebrated 9th National Voters Day on January 25, 2019. The voters' day celebration was initiated in 2011 by the then President of India, Smt. Pratibha Devi Patil, on the 61st foundation day of Election Commission of India .

Faculties & Students took oath that they all will vote without being biased & will always use their right of vote.



JECRC UNIVERSITY VISIT BY M.E DEPTT.

JECRC Mechanical Department faculties visited JECRC university for an interaction session with the different departments & their respective courses. During the visit we had an interaction with JU Mass communication department, Jewelry Designing, Hotel Management, Engineering Block & Many others. It was a nice & interacting session for whole department.



ATHLON 2K19

All work and no play makes jack a dull boy! Living by it, Jecrcians not only do well in their classes but also put up a great show in the ground as well.

Athlon '19, the sports event has set the sportsmen spirit high for all the players and the audience.

Athlon'19 wrapped up with a prize distribution ceremony by the dignitaries of JECRC, Sh. Arpit Agrawal, Director, Dr. Vinay Chandna, Principal, Sh. M.I Sharma, Vice Chairperson. The event ended with the words of inspiration by the dignitaries paving a way for new aspirations and pushing the normal limits of what is achievable! Congratulations to all the team members!





RENAISSANCE '19
A National Techno Cultural Fest

Renaissance'19 has been inaugurated with propitious lamp lightening ceremony by the chief guest Dr. Rajeev Gupta, Pro Vice Chancellor, RTU and the respected dignitaries. The four day long euphoria is now open to all with plethora of technical and cultural events





R-19 MECHANICAL DEPARTMENT TECHNICAL EVENTS CUT 2 DESIGN

“Cut 2 design” A Designing event held during R-19 in Mechanical Engineering Department with the main motto to understand the Machine Drawing .

The event has 2 rounds. First round is for checking the theoretical knowledge about Machine drawing basics. Then after second round about making three dimensional object of given 2D view by carving in Soap. Event was held on 18th March 2019 in CF-2 C-Block.

A total of 38 teams participated in the event out of which 20 qualified for the second round. We were very glad to have Mr.Surendra from LNMIT as an External Judge and Mr. Lalit Kumar Sharma from JECRC as an Internal Judge. Faculty Coordinators for the event were Mr. Gaurav Jain, Ms. Palak Jindal, Ms. Priti Bodkhe

First Prize -2000

Harendra Shekhawat-IV SEM

Deepak Jangid- IV SEM

Second Prize-1000

Prasit Jain- VI SEM

Devansh Sharma- VI SEM

The event ended with prize distribution by Dr. M.P Singh (HOD, M.E) & the Judges.



FORK LIFTER

This is aiming to enhance the hands on small models of mechanical engineers. The event is all about to build a small fork arm using wood and pin joints, and to lift a small weights. Few events challenging the students ability apart from academic proficiency, helps them to feel the different fields like designing, tooling and many more.

I PRIZE 2500

DEEPAK CHOUDHARY

YUGANT GARG

RAHUL RAJPUT

YASH

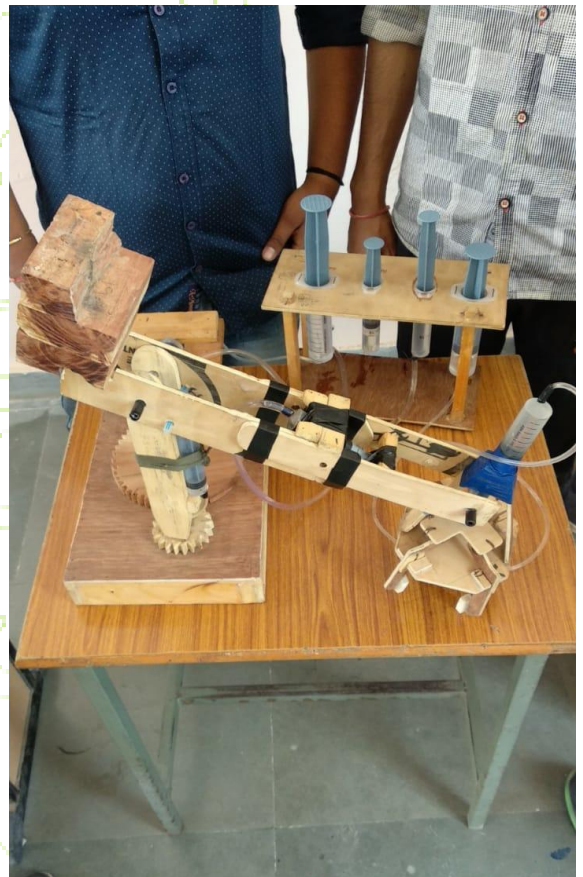
II PRIZE 1500

SAQUIB KHAN

PRASIT JAIN

NEIL RAJ

ROHIT GEHLOT





PROPELLO

“Propello” A propulsion devices competition event held during R-19 in Mechanical Engineering Department with the main motto to design and built own balloon powered car and propulsion rocket that will travel as far as possible.

Event had 2 rounds. First round is for checking the design and built own balloon powered car, then after second round was for propulsion rocket powered with the help of pressurised water. Event was held on 16th March 2019 in C-block, VIP parking, and ground floor. A total of 21 teams participated in the event out of which 10 qualified for the second round. We were very glad to have Mr. Pradeep Sharma from as an External Judge and Mr. Yogesh Dubey from JECRC as an Internal Judge. Faculty Coordinators for the event were Mr. Nitin Chhabra, Mr. Dilip Prajapati and Mr. Jitendra Gupta.

Student coordinators

- Neil Kaushik
- Ravi Sharma
- Yugant Garg
- Gaurav Mishra

First Prize -2500
Saurabh Agarwal Rajendra Rawat
Tushar Chaudhary

Second Prize-1500
Prazzwal- LMIIT

The event ended with prize distribution by Dr. M.P Singh (HOD, M.E) & the Judges.





CADD MANIA

Caddmania, a mechanical designing event was organized in renaissance 2019 on March 17, 2019 which was presented by mechanical engineering department.

Mr. Baldev and Ms. Kiran was the chief guest. A floral welcome was there by faculty coordinators Mr. Yogesh Dubey and Mr. Ravi Yadav.

Students coordinators were Vaibhav Boyal

VenkteshParashar,

VarruchiKatyayan YashJaitawat.

The event was huge successful with 50 participants. There was prize money and memento for first, second, third position holders.

Prize money-

1st position – Rs. 2000

2nd position- Rs. 1500

3rd position- Rs. 1000

First prize was won by Shubhamsinghal

Second prize won by Mohit Sharma, Third prize won by Deepak Jangid .





BRAIN QUEST

This event is held on 19/3/2019 at B-block. There are total 15 teams registered(14 teams before 19/3/2019 and 1 at the date of event).From our college 14 teams are participated and 1 team is from Poornima college.Each team consist maximum 3 members and minimum 2 members. The registration fees is Rs.300 per team.This event consist 3 rounds:

Round 1

In Round 1, 20 questions will be asked and the timing for solving these questions is 10 minutes.

Marking scheme is +3 for correct answer and -1 for wrong answer.

Round 2

From Round 1, 8 teams will be qualified.

Round 2 is Rapid fire round where 5 questions are asked from each team and the time limit is 10 seconds. Here also, +3 marks for correct answer and -1 for wrong answer are given.

Round 3

From Round 2, 4 teams are qualified.

Round 3 is buzzer round where common question is asked from all the 4 teams qualified and the Team who press the buzzer first will get the opportunity to answer first.

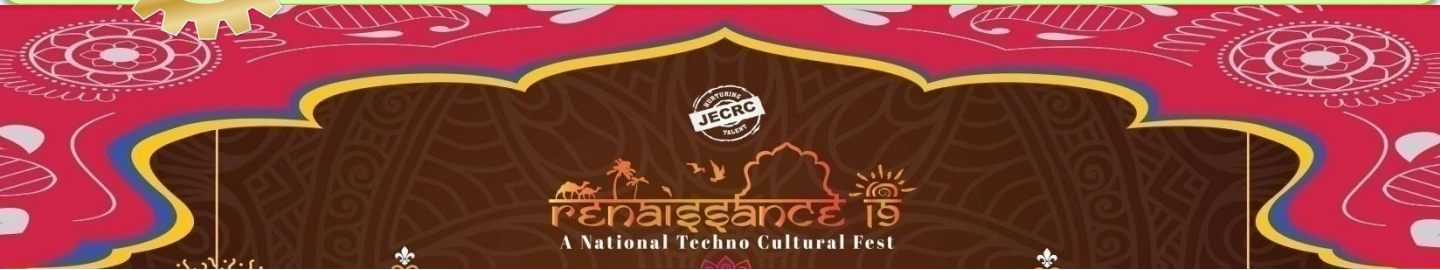
1st prize

Himanshu jain
Manish gangwar
Meru jain

2nd prize

Arshit paliwal
Abhishek jain





R-MECH OLYMPIAD

This event is held on 18/03/2019 at B-Block BT-14, BT-17. There are total 120 participants registered.

All 120 participants are from our college.

Registration fee is 100/-.

All 120 participants are from 1st year 2nd year 3rd year and 4th year

About Event

This Event consist of 2 rounds

Round 1:

1. In a Round 1, 40 Basic Mechanical Engineering questions are to be answered in 30 minutes.

2. In a second Round 50% students will be qualified for the next round.

3. The qualified students will be further divided as per their year of study.

Round 2:

1.30 core Mechanical Engineering questions are to be answered in 20 minutes.

2. Participation certificates will be given to every student.

1st prize 1500/- (Each year)

2nd prize 750/- (Each year)

3rd prize 300/- (with consolation) Each Year



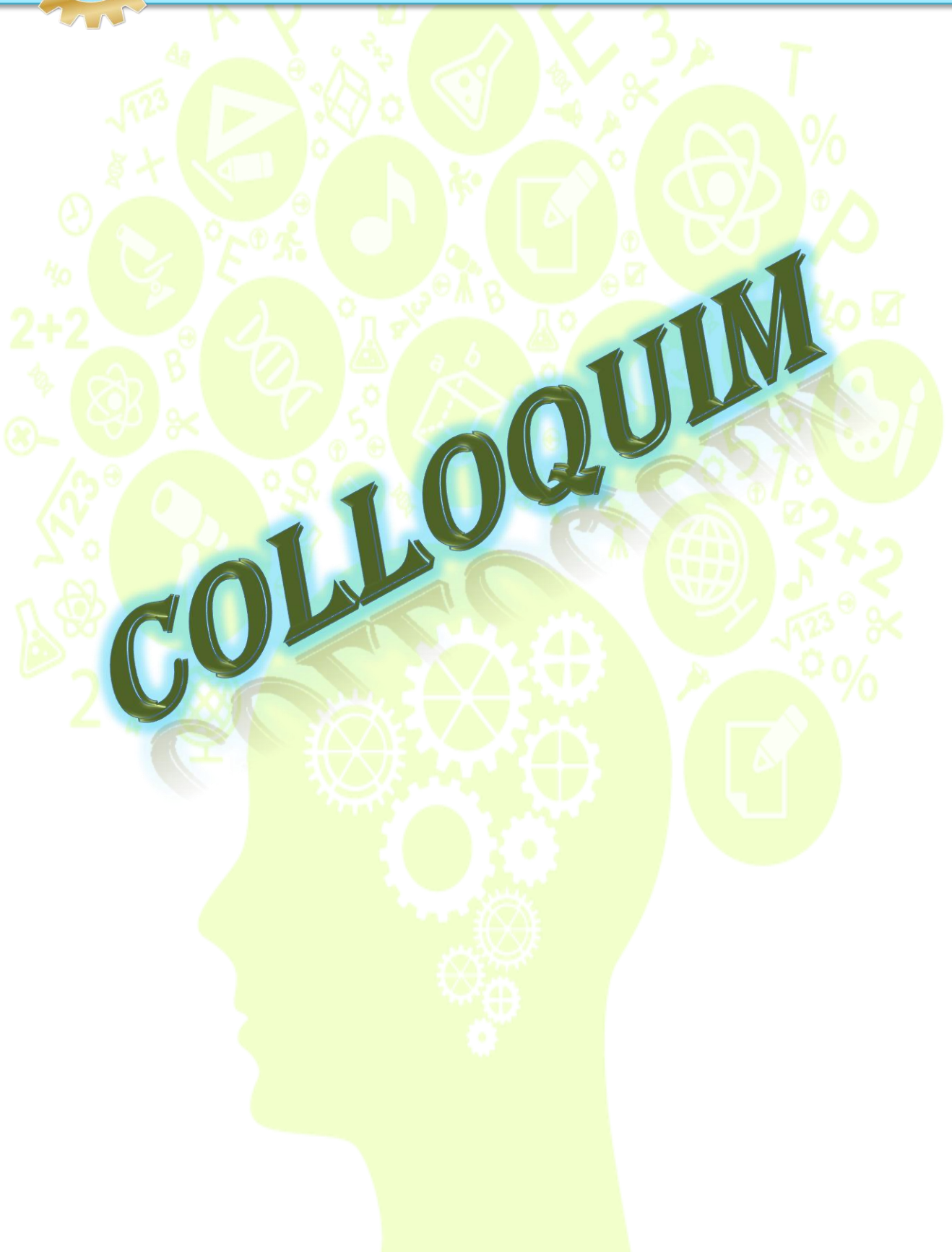
ELECTION AWARENESS CAMPAIGN

Elections are around and everyone should understand the importance of their vote as each vote counts. Officials from the Election Department, Govt. of India visited JECRC Foundation for an awareness session on casting votes. It was an activity based session where the first time voters got the chance to experience how voting is done on an imitation of real-time voting set up through EVM and VVPAT machines. As a responsible citizen of the country, every JECRCian is all set to vote!





JUL-DEC 2018



COLLOQUIUM

3-D PRINTING WORKSHOP

A 3-D Printing workshop was organized in association with CADD centre @ JECRC ME Deptt..

It was conducted from 11-13 Feb 2019 for 4th & 6th Sem students. Mr. Shail from CADD centre conducted the workshop & gave all the insights about 3-D printing its uses & applications.



QUEST LECTURE BY MADE EASY ON 22 JAN 19

Expert from Made Easy Delivered a talk on Career Progression & Sharpen Memory to students of VI Sem Mechanical Engineering.



TALK SHOW BY LAGHU UDYOG BHARTI

A talk show on the topic “THE STARTUP & ENTREPRENEURSHIP DEVELOPMENT– A CAREER OPTION” was organized by Laghu Udyog Bharti on 12 Feb.2019. Students & Faculty from M.E Deptt attended the event , it gave a brief insights on various options Startup.



QUEST LECTURE BY MR.FAISAL HODA CHIEF MANAGER MARKETING,GAIL

We were privileged to have Mr.Faisal Hoda, Chief Manager marketing from Gas Authority India Limited in JECRC Jaipur , He delivered a lecture on 9 Feb for third year students of Mechanical department in JECRC , His lecture was on Basics of natural gas and role of GAIL in Rajasthan. He discussed about the opportunities in GAIL and lecture turned out to be very interesting and enlightening for the students, making them redefine their perspective towards PSU'S. The lecture was followed by questions and answers interaction in which students have some queries. Mr. Faisal solved the queries with practical way and motivate the student to decide their goal in present scenario. The session was ended with vote of thank and decided to industry visit in GAIL to provide practical knowledge.



GAIL INDUSTRIAL VISIT

The Department of Mechanical Engineering at Jaipur Engineering College and Research Centre organised an industrial visit to Gas Authority of India Limited(GAIL) for the students of 3rd year on 23th February, 2019. A group of thirty curious students were given the chance to explore and understand the working of the Headquarter of Jamnagar-Loni LPG Pipeline(JLPL) which is the World's longest exclusive LPG Pipeline starting from Jamnagar & Kandla (Gujarat) to Loni (UP). This pipeline is fulfilling the LPG requirement of the Northern Zone of our country.

GAIL (India) Limited is a Maharatna PSU and India's Flagship Natural Gas Company, integrating all aspects of the Natural Gas value chain and its related services. The JLPL was commissioned in 2001 and is passing through the states of Gujarat, Rajasthan, U.P, Haryana & Delhi. Sourcing of LPG is from Reliance refinery, Jamnagar, Essar Oil refinery, Vadinar & IOCL- Kandla & this LPG is transported through this pipeline & delivered at 11 different receiving terminal of IOCL, BPCL HPCL at Ajmer, Jaipur, Delhi, Gurgaon & Loni (U.P).



At Mansarampura, GAIL has an Intermittent Pumping Station of its JLPL pipeline. The plant transports eight thousand metric tons of LPG per day which is soon to be augmented to ten thousand metric tons daily.

The transportation of natural gas is to be done with safety as the prime focus. GAIL performs scheduled checking and inspection of the pipelines using highly advanced tools and specialized equipments like foam pick, magnetic pick, etc. to check for any bends or cracks that may develop in the pipeline. The pipelines are coated with thick layers of polyethylene to prevent corrosion. A team of linewalkers is employed to check the wellness of the pipeline everyday by visiting the site. Interactive programs are conducted to spread awareness among villagers and farmers on how to prevent pipelines from getting damaged and dealing with a crisis situation. Automated valves and sensor based safety system is installed to immediately stop supply in case of any irregularity. The plant is very well equipped with all kind of fire safety devices. The complete network has optical connectivity and is under CCTV Surveillance everytime. The plant uses solar energy and tree plantation is focused upon to maintain high efficiency and minimize pollution.

The students were pleased to understand the working culture of the PSU and the real time experience of how the team has to be always prepared for any unwanted situation will be a life lesson.



CADD SEMINAR

One day CADD seminar cum workshop was organized by M.E Deptt JECRC in association with CADD centre on 18 Feb 2019.

Mr. Rajeev Bhargava gave an insight on the whole concept of CADD & the new innovations coming up. All the students of 4th Sem were the part of this Seminar.



QUEST LECTURE BY APTRON DESIGNING ON 3 APRIL 19



A guest lecture was organized by department of Mechanical Engineering on designing by Mr Harish verma of APTRON designing firm.

The lecture started with a complementary introduction of the guest followed by the basic introduction about designing in the field of mechanical engineering.

He explained about the basic and main domain of mechanical department in the corporate world with the requirements of a designer that a company needs.

He also explained the basic concept of designing and its sub branches, He explained about the two types of designing i.e. concept and parametric designing.

The session followed by the difference between old and new designing requirements in companies. He explained that how designing today is different from that of the old days.

He explained that the computers in today's world have replaced the manual designing process.

At last he explained the need of a designer in industries and explained about his firm in providing internships and training to the students in his centre of APTRON.

The session was very interactive and ended with the curious questions by young eager minds of the class.

Students learnt a lot from this interactive session on designing.

NCFTME 2019

JECRC Foundation - Department of Mechanical Engineering organized a National Conference on Futuristic trend in Mech Engineering. To bring researchers and experts from Academics on a common platform to address the challenges and opportunities in the field of Science and Technology. Chief guest Dr. Ashok Sharma, Dean Research from Manipal University along with Programmer Convener Dr.M.P.Singh, Co-Convener Dr. Fauzia Siddiqui, Satyendra Kumar,, Dr. Rishi Parikh and Technical coordinator Mr.Hemant Bansal was Present.Above 200 papers were short listed for this conference and out of these 78 papers reads by various authors.



ICRITDME2019

2nd international conference was organized by Department of Mechanical Engineering JECRC Jaipur.

International Conference on Recent Innovations & Technological Development In Mechanical Engineering (ICRITDME-2019) It was technically supported by IFO-Published by IJSER and GJEIS Journal on **5th-7th April 2019**. The conference brought academicians and industrial experts together to make efforts and explore the undiscovered aspects of engineering. The idea was to provide a common platform for researchers to learn and explore different dimensions with the motive to find solutions for the common good of the society.

Inauguration of this 3-days conference was done by our honorable guests **Dr. Raphael Guerrero**, Acting Dean School of Science and Engineering, Quezon City, Philippines, **Dr. Dilip Sharma**, Professor & Head of Department, Mechanical Engineering, MNIT, Jaipur., **Shri Giriraj Maheswari**, Senior General Manager (Marketing), National Engineering Industries, **Shri Ashok Kumar Agarwal**, Associate Professor, Electrical Engg. MNIT Jaipur & **Shri Anil Pania**, Senior Manager, Salesforce Consulting Services Appiriro Jaipur.



We were also honoured to have **Dr J.P Bhamu**, Principal GEC Bikaner and **Dr. B. K. Sharma** Designated Chairman of IFO ,Rajasthan Chapter assession chairs ,**Dr Dilip Sharma** Head & Professor of MNIT Jaipur , **Dr. Anuj Prakash Ph.D.**

Postdoctoral Research Fellow at HongKong Currently working as Manager in TCS Bangalore, **Dr. Giriraj Maheswari** General Manager, NEI as keynote speakers. He focused on making the system highly efficient and eco friendly. Mr Giriraj Maheswari in his keynote address provided an introduction about the National Bearing Company and the advancements that have been made in the production and the bearing technology.



To guide the authors & fertilize the raw brains of young talents with their experience we invited to chair the session **Dr. M.L. Meena & Dr. T.C. Gupta** Associate Professor, Mechanical Engineering, MNIT Jaipur, as a **key notes and session chair for session 1**, **Dr. Ankur Pareek** Consultant, TEQIP III, Jaipur. We were honored to have such eminent personalities as our **session chairs**. After presentation each author was awarded **certificate of participation** from our eminent academicians/ session chairs. **ICRITDME-2019** Received 268 papers and after reviewing and scrutinizing we selected 97 papers for oral presentation. The conference has significantly contributed to the society by serving the engineering community thereby providing innovative results.





JUL-DEC 2018

PATHMAKER LEAGUE





PLACEMENTS 2019 BATCH

Pinnacle	17
TCS CodeVita	1
BYJU	1
Trading Bells	13
FI Smidth & Co.	1
ParaMount Research	21
Fev India	8
JARO Edjucation	1
L&T Infotech	RA
Just Dial	12
Academia Guru	1
Gulati auto Electricals	3
Smart circle group	3
Appeal Group	2
Aquatronic systems	1
JRBS	1
FACE	YES
KBS	YES
Mahindra First Choice	4
Toppr	YES
Locus Rugs	YES
Abacus Consultant	YES
Cognizant	YES
InfoSys	YES
Bridgestone	YES

Alumni Speaks



Dear all JECRCians,

I was a Mechanical aspirant of 2008-2012 batch in this wonderful college JECRC. My College days are unforgettable and in fact those days are the most happiest & fruitful days in my life. I proudly feel that I cherished every moments of my college. Being a “JECRCian” make me feel proud.

My experience in JeECRC was just amazing. I got infinite love & lessons from my teachers specially from Manish Jain Sir, Kuldeep Sir, & Ashish Nagpal Sir, here teachers made me do “Work Hard” for the way to success. Miss those days of JECRC. Just want to thank to the wonderful faculty of JECRC....I am proud to be a Jecrcian.

After completion of my college degree I prepared for Gate and secured AIR 21 in Gate 2013 examination and got selected in PSUs like IOCL, BPCL, HPCL, NTPC etc. Later after consulting with my seniors and teachers I joined in IOCL as an Operations Officer. Currently I am posted at indane Bottling Plant, Jhunjhunu as a Safety Officer.

I wish to inform you all once again that through the proper guidance and hard work anyone can achieve much higher milestones for which you dreams like me.

Wish you all the best.

Thanks and regards
Ghanshyam Pilania
Ex-Jecrcian



FELICITATION DAY

Aashayein The Life Saviours

Enriching lives,
They inspired.
Being the real heroes,
They are the ones to be admired.

The real definition of patriotism lies not only in being a soldier at war but by accomplishing our responsibilities as a loyal citizen." With these enchanting words Retd. Cpt. G.R. Choudhary Sir inspired and appreciated our selfless SDP donors and girl blood donors in the Felicitation Ceremony organised by Aashayein -The Life Saviours on February 22, 2019 at the JECRC Foundation.

The aura was enthralled with the auspicious presence of IAS, Dr. Naveen Jain, Secretary, Skill, Labour and Employment Department and Retd. Capt. G. R. Choudhary, Indian Army, Sh. O.P. Agrawal, chairman JECRC Foundation, Sh. Amit Agrawal, Director JECRC Foundation, Sh. Arpit Agrawal, Director JECRC Foundation, Dr. V. K. Chandna, Principal JECRC Foundation, Sh. Kuldeep Sharma, Teacher Coordinator Aashayein-The Life Saviours as our guest of honour.

A total of 260 young and gracious SDP donors were honoured who wholeheartedly contributed towards bequeathing the gift of life. Along with it, 120 female blood donors were also dignified with certificates as they came out in the form of real life saviours by breaking the stereotypical beliefs.

Our beneficiaries shared their profound emotions and created a heart warming ambience in the auditorium with their prized words.

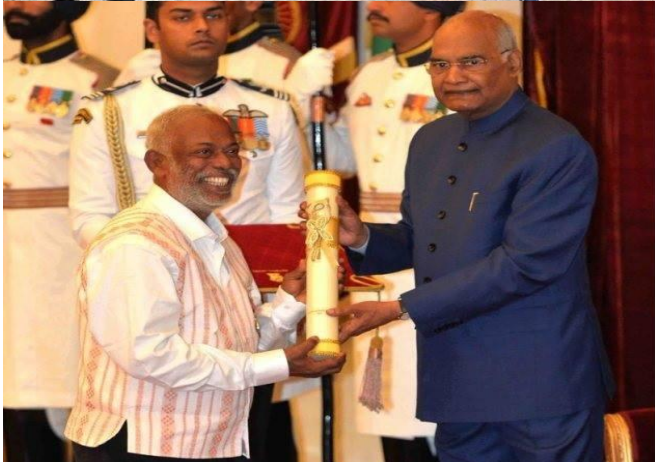
It was well quoted by Dr Naveen Jain Sir, " We shouldn't expect change to occur while being in our comforters, we need to be the change we want to see in the society." With an emotion to carry the same thoughts forward, every soul enlightened with the commitment of serving humanity, saving more lives and making more such endeavours.



ZARURAT- CELEBRATING INNOCENCE

Team Zarurat- Celebrating Innocence organised Balmohtsav today. The day started with an astonishing Cartoon Parade which left the kids mesmerized and with the smiles on their faces, it was visible how significantly they were enjoying the parade. Followed by that, Inauguration of the event took place where our honourable chief guests Padma Shri D. Rao and Mr. Jay Chhaniyara, a prominent comedian were welcomed by the dignitaries of the JECRC Foundation. The chief guests enlightened us with their incredible words and shared their journey marking “Karm Kiye Ja, Phal Ki Chinta Mat Kar.”

Taking forth their event, team ZARURAT organised a very entertaining session in which all the kids showcased their talents through art and craft. Team ZARURAT undoubtedly inculcated an enthusiastic charm not only among the kids but amongst all the audience as well. The whole ambience became more cheerful with the beautiful dance performances of all the children. Fun activity and dance performance was further followed by the lunch. It was a treat to watch those beautiful smiles on their faces.







JECRC MUN 2K19

The much awaited day of Eighth Edition of JECRC MUN started with Inauguration. The Ceremony began with lamp lighting in presence of Chief Guests Dr Jawahar Surisetty and Ms Hari Chandana Dasari accompanied by the JECRC dignitaries and Secretariat members. During the course of ceremony, the chief guests interacted with the delegates and gave their best wishes for a successful conference. Both the guests were immensely impressed with the MUN culture flourishing in JECRC





JAN-JUN 2019



JUKEBOX

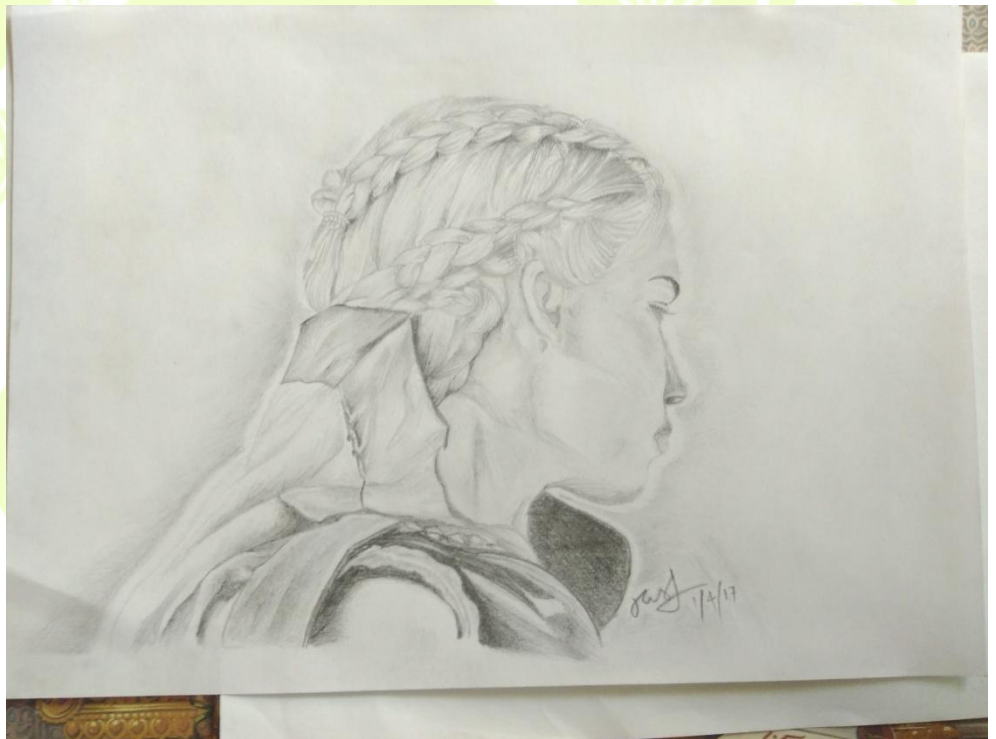


Artist Column

*By
Balkishan
VIA M.E*



Artist Column
By
Yash Jaitawat
VIB M.E



Chandrayaan-2

By-Mr. Akhil Vijay

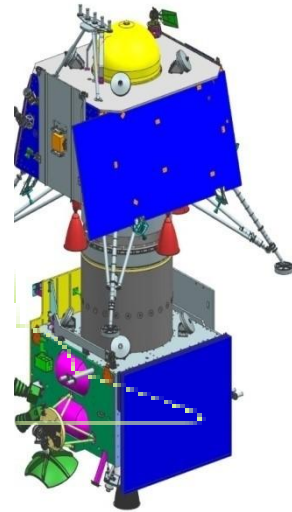
The country salutes ISRO as India scripts history in space exploration and technology. **Chandrayaan 2** is in orbit and began its historic journey towards the lunar surface.

Chandrayaan-2 is India's second lunar exploration mission after Chandrayaan-1. Developed by the Indian Space Research Organisation (ISRO), the mission was launched from the second launch pad at Satish Dhawan Space Centre on 22 July 2019 at 2.43 PM IST (09:13 UTC) to the Moon by a Geosynchronous Satellite Launch Vehicle Mark III (GSLV Mk III). The planned orbit has a perigee of 170 km and an apogee of 45475 km. It consists of a lunar orbiter, a Lander, and a lunar rover named *Pragyan*, all developed in India. The main scientific objective is to map the location and abundance of lunar water.

The lander and the rover will land near the lunar south pole region in a high plain between two craters, Manzinus C and Simpelius N, at a latitude of about 70° south on 7 September, 2019. The wheeled *Pragyan* rover will move on the lunar surface and will perform on-site chemical analysis for a period of 14 days (one lunar day). It can relay data to Earth through the Chandrayaan-2 orbiter and lander, which will fly on the same launch. The orbiter will perform its mission for one year in a circularized lunar polar orbit of 100 × 100 km.

Launch of Chandrayaan-2 was originally scheduled for 14 July 2019 at 21:21 UTC (15 July 2019 2:51 IST) but was called off due to a technical snag noticed while filling the cryogenic engine of the rocket with helium at around one hour before launch. The launch countdown for launch was frozen at T minus 56 minutes (56 minutes and 24 seconds before launch). It was launched on 22 July 2019 14:43 IST (09:13 UTC) from the Satish Dhawan Space Centre at Sriharikota in Nellore district of Andhra Pradesh.

A successful landing would make India the fourth country to achieve a soft landing on the Moon, after the space agencies of the USSR, US and China. If successful, Chandrayaan-2 is the southernmost lunar landing, aiming to land at 67°S or 70°S latitude



*Hima Das*

Hima Das (born 9 January 2000), nicknamed the *Dhing Express*, is an Indian sprint runner from the state of Assam. She belongs to the Keot(Kaibarta) community, an indigenous community of Assam. She holds the current Indian national record in 400 metres with a timing of 50.79 s that she clocked at the 2018 Asian Games in Jakarta, Indonesia. She is the first Indian athlete to win a gold medal in a track event at the IAAF World U20 Championships. Hima Das was born at Kandhulimari village, near the town of Dhing in the state of Assam to Ronjit and Jonali Das. Her parents are farmers by profession. She is the youngest of five children. She attended the Dhing Public high School and was initially interested in playing football. She played football with the boys at her school and had always wanted to pursue a career in football. However, she did not see any prospects for herself in women's football in India. Later, upon advice from a school physical education teacher, Shamsul Hoque, she changed to sprint running.

Awards and accolades

- Conferred with Arjuna Award by the President of India on 25 September 2018.
- Appointed as the India's first ever youth ambassador of UNICEF-India on 14 November 2018.
- Appointed as the Assam's brand ambassador for sports by the Government of Assam.



From the Diary.....

Tick tock...tick tock...

Life is counting down on your internal clock.

Memories that feel as if they occurred yesterday
turn to flashes of moments that seem to fade away.

People you once knew
walk by without a clue.

The times you once shared
exist as if you were never there.

Years fly...friends die...
and you never know when you'll say your last goodbye.

Oh, how I wish I could turn back time,
spend it with loved ones and cherish what once was mine.

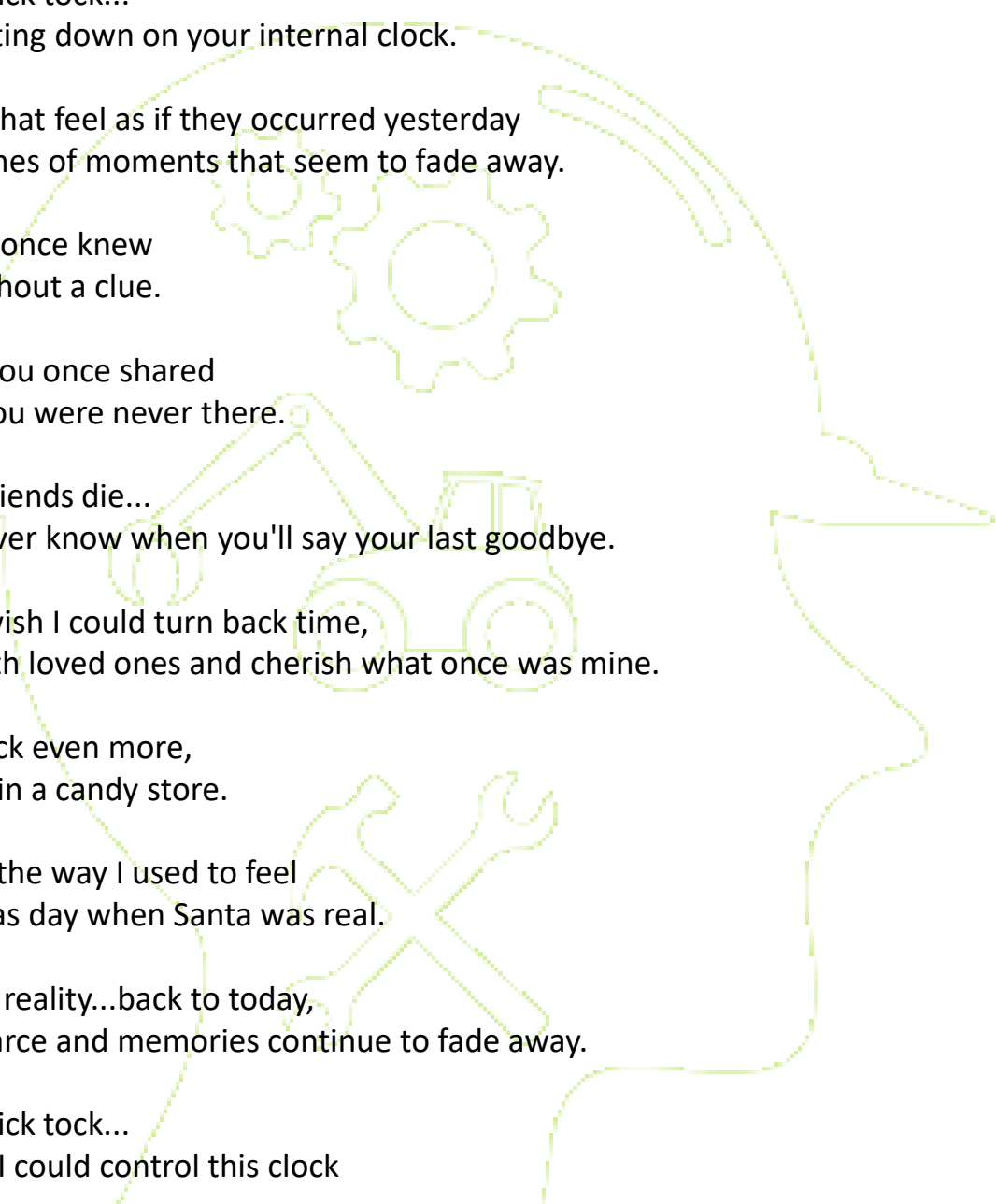
Or to go back even more,
being a kid in a candy store.

How I miss the way I used to feel
on Christmas day when Santa was real.

But back to reality...back to today,
family is scarce and memories continue to fade away.

Tick tock...tick tock...

How I wish I could control this clock



FACULTY PROFILE

DEPARTMENT OF MECHANICAL ENGINEERING



Dr Mahendra Pratap Singh
Professor, HoD



Mr Manish Jain
Associate Professor



Dr. Fauzia Siddiqui
Professor (Dy.HoD)



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Mr Lalit Kumar Sharma
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Mr Tejendra Singh
Assistant Professor



Mr Satyendra Kumar
Assistant Professor



Mr Rajendra Kumar Gupta
Assistant Professor



Mr Nikhil Jain
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Mr. Devesh Kumar
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Mr Nitin Chhabra
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Mr Akhil Vijay
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Mr Dilip Kumar Prajapati
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Mr Dayal Singh Rathore
Assistant Professor



Mr Jitendra Kumar Gupta
Assistant Professor



Mr Ravi Kumar Jangid
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Mr Aashish Nagpal
Assistant Professor



Mr Ravi Yadav
Assistant Professor



Mr. Ravindra Kumar
Assistant Professor



Mr Hukum Chand Nagar
Assistant Professor



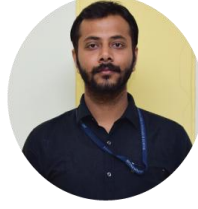
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Mrs Palak Jindal
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Mr Shashank Shekhar Singh
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Mrs Priti Pramod Bodkhe
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Mr Tej Bahadur Singh
Assistant Professor



Mr Birsingh Sirowa
Lab Instructor



Mr Rajendra Singh Naruka
Sr Lab Instructor



Mr Hanuman Prasad Saini
Sr Lab Instructor



Mr Hemant Naiwal
Lab Instructor



Mr Sandeep Sharma
Lab Instructor



Mr Anil Prajapati
Lab Instructor



Mr Narendra Singh
Lab Instructor



Mr Sunil Kumar Yadav
Lab Instructor



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