



E-MECHZINE



FIFTH ISSUE

JUL-DEC 2018



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

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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 Fifth 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.



JUL-DEC 2018

PROMULGATION

“A RHYTHM OF EVENTS”



STUDENT ACHIEVEMENTS

SEMESTER TOPPERS

<u>SEMESTER</u>	<u>SHIFT</u>	<u>NAME</u>	<u>%</u>
IV	I st	LOKESH DHYAWANA	78.9
	II nd	ADITI GUPTA	76.8
VI	I st	PRASHANT KUMAR	80.6
	II nd	SHUBHAM WADHWA	76.9
VIII	I st	VAIBHAV VYAS	84.6
	II nd	ARUN SHRINGI	82.4

Digifest @ Bikaner (26 July 2018)



Pankaj Maharshi from Mechanical Department participated in Rajasthan Digifest 2018 in Job Fair event. He got Selected in 3 IT companies in the same event. This is the highest selection of the event. He was invited to the stage to share the stage with CM Rajasthan Smt. Vasundhara Raje. He also discussed about his previous projects to Vasundhara mam and the audience of 10 thousand.

Hackathon 5.0 @ Digifest Bikaner



A Non-stop 24 hour programming event was held by the govt. of Rajasthan during Digifest at Bikaner. Students from all over the India participated with there innovative ideas. The CM of Rajasthan Smt. Vasundhara Raje inaugurated the Bhamasha ATM's for villagers. An IT expo was conducted to show the performance of Rajasthan at digital level. Along with various teams from JECRC three students from Mechanical Deptt also participated in the Event. Ekant Labana - Vth Sem, Ompuri- Vth Sem, Venkatesh - III rd Sem

MOONRIDERS

Team Moonriders from Mechanical Department JECRC got selected for Virtual BAJA round at National level .



MEETING WITH VICE PRESIDENT TCS

Pankaj Mahrishi student of JECRC Mechanical Department got a chance to meet Mr. Hasit Kaji TCS Vice president & discussed about projects @ JECRC Foundation



VII th SEM MINOR PROJECT PRESENTATION



VII sem project presentations were taken from 6 - 8 Sep 2018 to analyze their progress, Mr. Yogesh Dubey & Mr. Akhilesh Paliwal were among the faculty coordinators for the project.

FACULTY ACHIEVEMENTS

Faculty Development Program @ JECRC UNIVERSITY (July 3 - 5 2018)



The faculty development program started with a brief Inaugural speech. The first session started with motivation of faculty members and to articulate about their expectations from the program. The session helped to show the importance of understanding teaching as an art.

It is a well-known thing that body language is a very important aspect of the personality of anybody. The expert tried to establish the importance of body language for the teachers as away to impression management in the work place. Presentation skill are very important aspects for professionals hence the expert showed the way to enhance the skills for drafting an impressive presentation. Time management is the most important aspect for anybody. Hence detailed deliberations were made for prioritizing and productive use of time as a measure of work life balance. The session for the day ended with an interesting strategic game of the day.



The second day started with basic orientation, strategies, do's and don'ts for GD, Resume writing and PI. Which will continue to introduce the basics of Quant's/Logic /verbal for understanding the basics of aptitude with discussion on importance of aptitude topics in placements. The day ended with discussions about power writing with orientation on writing skills and focus on netiquettes plus effective email writing. The third day consist of an orientation on face now portal for CBT. The session continued to highlight the roles of a mentor and mentees handling with orientation and guidelines to be a good mentor. The day and the Program ended with valediction speech and certificate distribution.

Short Term Course on "Data Analytics for Engineers"@MNIT,Jaipur
10th-14th December 2018

Dr. Manmohan Siddh, Mr. Tejendra Singh, & Mr. Nikhil Jain Faculties Mechanical Department has participated in one week short term course on "Data Analytics for Engineer" organized by MNIT, Jaipur

WORKSHOP CUM CONFERENCE @ VIT VELLORE

By- Mr. Rohit Goyal

Mr. Rohit Goyal lecturer Mechanical Department attended a conference on "BioMET" at VIT University, Vellore Tamilnadu, India . The aim of this conference was an attempt to bring in leading scientists of various fields, clinicians and delegates from healthcare industry together on a single platform. Scientists, clinicians and engineers, from all around the world, having varied research interests like biomaterials, nanotechnology, tissue engineering, stem cells, molecular biology, drug delivery and gene therapy are invited to critically discuss the challenges and options in clinical theranostics. The conference was consist of two days pre-conference workshop(24th-25th July2018) followed by the three days (26th-28th July 2018) conference that includes- keynote and plenary sessions, brainstorming panel discussions by invited speakers, oral and poster presentation by participants

FDP @ CADD DESK 24 Dec-28 Dec 2018



An FDP on Auto CADD, Creo & Solid works was organized by CADD Desk, Jaipur .
Our Faculties Mr. Satyendra kumar, Mr.Ravi Yadav & Mr. Dayal Sing Rathore.



Faculty Publications & Achievements

1. Dr. M.P Singh HOD M.E research paper titled “Study of Flow Separation on Airfoil with Bump” got published in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13.
2. Mr. Devesh Kumar Faculty M.E got his research paper titled “Synthesis & Air Jet Erosion study” published in Metallurgical & Materials Transaction A of Springer Journal.
3. Mr. Nikhil Jain Faculty M.E got his research paper titled “Effect of AL2O3 powder in deionised water on MRR during EDM of H11 steel” published in IOP conference series Material Science & Engineering.
4. Dr Bhuvnesh Bhardwaj Faculty M.E got his research paper entitled “Modelling and experimental investigation for performance and emissions on a diesel engine using bio-oxygenated ternary fuel blends” got published in Energy Journal of Elsevier Issue Nov 18
5. Dr. M.P. Singh HoD M.E communicated paper entitled "An ISM approach to Performance Indicators of Sustainable Manufacturing through Micmac Analysis in an Indian manufacturing Industry" (Submission code: IJAOM-239523) for the International Journal of Advanced Operations Management (IJAOM) in Dec2018.
6. Dr. Fauzia Siddiqui Dy. HoD research paper entitled “Optimal selection of parameters in CNC end milling of Al 7075 T6alloy by TLBO” got published in WCEA – 2018 Kuala Lumpur, Malaysia.
7. Mr. Manmohan Siddh got Awarded with **PhD Degree from MNIT, Jaipur** in December 2018.
8. Mr. Satyendra kumar, Mr. Ravi yadav & Mr. Dayal Singh Rathore Faculty M.E Research paper entitled “Industrial Automation: Need, Structure & Challenges” got published in ICRIETMR 2018.

*Activities at a Glance***IIIRD SEMESTER INDUCTION PROGRAM (2-15 JULY)**

A 15 day Induction program was carried out by Mechanical Deptt. For the 3rd semester students to welcome them in Mechanical Deptt and prepare them for their new role. Induction program included development of theoretical and practical skills & also meet interaction needs that exist among the students.

An induction programme is part of an organisations knowledge management process and is intended to enable the new students to become a useful, integrated member of the department, rather than being "thrown in at the deep end" without understanding how they fits in with the rest of the department.

Different Activities were carried out during the program.

- ❖ Industrial visit
- ❖ Aeromodeling workshop
- ❖ Seminars
- ❖ CADD workshops
- ❖ Guest lectures
- ❖ BAJA TUTOR Workshop







JUL-DEC 2018

FDP @ MECHANICAL DEPARTMENT
on
"EFFECTIVE LABORATORY SKILLS
FOR
TECHNICIANS"
(JULY 3-5 2018)

An interactive FDP program was organized by Mechanical Department for the technical staff on "Effective Laboratory Skills" where the faculty incharge of different labs share there knowledge of different experiments. It was highly informative & full of knowledge session which is going to benefit one & all in their respective areas.





Induction Day of Batch 2018-2022

It was the first day of the rest of their lives when the best of young minds who participated in REAP stepped into the corridors of JECRC for the first time, a place they will be spending most of their coming 4 years. We wish the Batch 2018-22, the very best and welcome them with warmth and compassion. The first day of the Induction Program 2018-19 ended amazingly. The two alumni of JECRC Mr. Ritukar Vijay, Head of Technology & Product Strategy in Hi-Tech Robotics Systemz Ltd. and Mr. Praveen Jaiswal, founder of PRS Associates LLP welcomed the newcomers with their experiences and best wishes. The sessions were organized for the students of Electronics and Communication Engineering (ECE) and Mechanical Engineering (ME) Departments. Induction program was a 15 day activity & students got the opportunity to know about the environment, they were going to dive in, in the upcoming 4 years. The day was indeed the memorable one for all the students as they got the chance to interact with the Leadership team of JECRC Foundation. The whole family rejoiced and welcomed the new members with open arms.





72nd Independence Day @ JECRC Jaipur

JECRC celebrated 72nd Independence Day with lot of zeal, enthusiasm and patriotism in our hearts. The chief guest Sh. P.K Tiwari JECRC, hoisted the National flag followed by the National Anthem. Chief guest than addressed the faculties & students with his kind words and the importance of freedom for upcoming generations and how we can contribute towards the growth of our Country. After the speech patriotic songs were sung by the students and the function ended with a happy note.



TEACHERS DAY @M.E DEPTT, JECRC

Teacher's day is celebrated every year on 5th of September to pay honour to our selfless teachers and their priceless job. 5th of September is a birth anniversary of our earlier President Dr. Sarvapalli Radhakrishnan. This year also students of JECRC Mechanical Department celebrated the Teachers day. Different activities were performed & students greeted there faculties.



4th World Summit on Accreditation

In Association with AICTE & MHRD 4th world summit on Accreditation was held in Delhi from 8-9 Sept 2018. It was attended by Principal Sir & HoD's of all the Dept. Mechanical HoD Dr. M.P Singh was one of the Team who have attended the summit



Engineers Day @JECRC

Mokshagundam Visvesvaraya (1860–1962) was a prominent Indian engineer, scholar, visionary, and public official. He played an important role in many civil engineering and public works projects across undivided India. Visveswaraya's birthday, 15 September, is celebrated as Engineer's Day in India. Different events were conducted on this occasion by M.E Deptt viz An Opinion, Dumb Charades', Innovative Ideas etc.

An event named "An Opinion" was carried out by the students of Mechanical Department of JECRC foundation on Engineers day. The main objective of the "An Opinion" was to create a sense of technical and compressive speaking amongst students. The coordinator of debate were Vaibhav Goyal and Ashwini Singh. There were around 56 participants for the debate and both the topics were equally chosen. Participants were speaking for or against the motion of both the topics. Ist prize was won by Bhavika Mittal (Cash prize of Rs. 1000)

IIInd prize was a tie between Aastha Agarwal and Praggwal shrotriya. (Cash prize of Rs. 250 to both the participants).

The next event was Dumb Charades The main objective of this event was to create a sense of comprehensive , understanding and interaction with new technical terms. The coordinators of this event were Yugant Garg and Aman Tinker. We observe a mass participation of the students from 1st year. Another event in the row was Innovative Ideas. The coordinator of the event were Mohit soni , Ravi sharma and Rohit Tinker.

There was a mass participation from Ist ,IIInd and IIIrd year.The event started by the guest lecture on 3D printing by Mr. Rajeev Bhargava the guest of honor for the day. There were nearly about 28 teams for the event.



JUL-DEC 2018



Vishwakarma Puja On 17 Sep



The festival is observed primarily in factories and industrial areas, often on the shop floor. As a mark of reverence the day of worship is marked not only by the engineering and architectural community but by artisans, craftsmen, mechanics, smiths, welders, industrial workers, factory workers and others. JECRC M.E Dptt. Celebrate this day & prayed for a better future, safe working conditions and, above all, success in their respective fields. Everyone prayed for the smooth functioning of various machines. It is customary for craftsmen to worship their tools in his name, refraining from using the tools while doing so. Modern electronic servers are also worshipped for their smooth functioning.

Anniversary Of Surgical Strike

On 29 Sep. The nation celebrated the second anniversary of surgical strikes that were conducted by jawans on Pakistani terror launch pads across the Line of Control (LoC) on the intervening night of September 28-29 in 2016. The three-day celebrations – „Parakram Parv“ kicked-off on Friday evening with Defence Minister Nirmala Sitharaman opening an exhibition at the India Gate lawns in Delhi. JECRC feels proud to be a part of INDIA & we at JECRC celebrated this day with full zeal & enthusiasm



149th Mahatma Gandhi Jayanti@JECRC

JECRC is committed to PM Modi's vision of [#SwachhtaHiSeva](#).

On 2nd October, 2014, the Indian Prime Minister, Sh.Narendra Modi, launched a nation-wide cleanliness campaign on the occasion of Mahatma Gandhi's birth anniversary.

The concept of Swachh Bharat is to provide sanitation facilities to every family, including toilets, solid and liquid waste disposal systems, village cleanliness, and safe and adequate drinking water supply.

We have to achieve this by 2019 as a befitting tribute to the Father of the Nation, Mahatma Gandhi, on his 150th birth anniversary. Indians gained freedom under the leadership of Gandhi Ji, but his dream of a clean India is still unfulfilled. Mahatma Gandhi said "Sanitation is more important than independence". He made cleanliness and sanitation an integral part of the Gandhian way of living. His dream was total sanitation for all. Cleanliness is most important for physical well-being and a healthy environment. It has bearing on public and personal hygiene. It is essential for everyone to learn about cleanliness, hygiene, sanitation and the various diseases that are caused due to poor hygienic conditions. The habits learnt at a young age get embedded into one's personality. Even if we inculcate certain habits like washing hands before meals, regular brushing of teeth, and bathing from a young age, we are not bothered about cleanliness of public places.

As a part this campaign today on the anniversary of SH. MHATAMA GANDHI, Dept. of Mechanical Engineering ,JECRC JAIPUR paid him a tribute by contributing our services to CLEAN INDIA CAMPAIGN by cleaning D-block including parking followed by PLEDGE taken by students and staff of Mechanical Department for keeping NATION clean by contributing minimum 2 hr in week and will try to make the dream of CLEAN INDIA which was a wish of MAHATAMA GANDHI.





Vande Mataram – Voice of Unity 2018

The 4th edition of Vande Mataram-Voice of Unity event was organised this Saturday, 6th October 2018 in Rajasthan College. More than 20 thousand students of schools and colleges from around the city gathered to sing the national song Vande Mataram in unison. The event witnessed performances from artists of Jaipur gharana, Jodhpur gharana and renowned singers from Mumbai. Our patron Sh. Amit Agarwal, who has also been the Chief Convenor of this event for last 4 years, welcomed all the dignitaries, artists & audiences. This year families of some of the martyrs from the land of Rajasthan were also honoured by the organising committee. Like every year the event has been instrumental in keeping the fire of patriotism alive in all of us and provided a stage of inspiration for the young students. Here are a few glimpses of the ensemble.



Alumni Interaction with Mr. Sankalp Sharma on 13aug 2018

On 13th august our alumni Mr. Sankalp Sharma was welcomed in our college for a guest lecture. In starting he described about his experience in the college.

He explained about the formation of Moonriders club in 2009. He told us that how he started the club and failed in many competition but according to him slow progress is better than no progress.

So he continued to make cars for 4 years, he won many competitions and made the club most prestigious club of the college. The lecture followed by his choices as a student for his carrier. Now today his club has won many awards for our Alma matter. He explained about his work in different countries as a design and as a Automobile Engineer. His experience was very valuable and motivating in everyway. After this curious students asked some questions. After his curious interaction the vote of thanks by HOD sir (Dr. M.P Singh) and Moonriders coordinator (Kuldeep sir) was given.



Seminar on Development vs Crime against Women On 29 Aug.2018

An Expert Talk on Development Vs Crime against Women was conducted today at JECRC under the aegis of Women Connect Cell. Mrs.Pushpa Satyani , Joint Secretary to Govt,Technical Education Deptt. Jaipur and Dr.Kirti Sharma, OSD, Higher Education,Governor Secretariat,Jaipur were the guests for the event.

Mrs.Pushpa Satyani threw light on the mental development of both men and women. Dr. Kirti Sharma started the talk with the fact that crime against women is the scar on the face of development of women. She talked about the article by Dr.Kiran Bedi that there are three M's in male dominant society(Muscle power, mobility & Monetary Power) which has to be conquered by three E's(Education,Empowerment &Environment).The Talk ended by presenting token of gifts to both the speakers



Guest Lecture On Economics And Market Scenario On 20th Aug 2018



On 20th august Mechanical department organized a guest lecture on Economics and Market scenario by Mr. Bharat Dadwani. The lecture started with a brief introduction of the topic. Mr. Bharat explained about Indian Economical situation of today's times. He explained that global GDP growth is effected by daily investment.

He explained the difference between emerging and developed market. India is committed in emerging Market and provides a service of Man to the world.

Mr. Bharat than switched on to the economy, inflation and markets. He explained about the global and domestic risks for economy. Mr. Bharat explained about Government expenditure and selling's on infrastructure of country.

Secondly, He explained about how to fulfill the wants of human by making small investments. He explained Mutual funds, Real-estate and commodity.

After that session moved to a curious question and answer session.

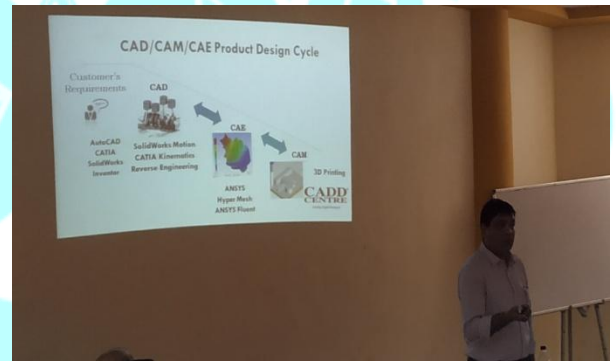
CENTER FOR APPS & IDEAS



CAI organized a training session for the students, also there was demo of different apps developed by students like app on railway, medical, MUN etc. Students displayed their talents & learnt a lot of useful information from the Trainer also Mr. Manish Srivastava was the convener of the event

3D Printing Technologies in Today's Era

Mr. Rajeev Bhargava from CADD centre, Jaipur gave a presentation cum workshop on 3D Printing to students of 3rd year Mechanical Engineering. 3D printing is a technology in which material is joined or solidified under computer control to create a three-dimensional object, with material being added together (such as liquid molecules or powder grains being fused together). **3D printing** is used in both rapid prototyping and additive manufacturing. Students were very thankful to the department for organizing such interactive session.

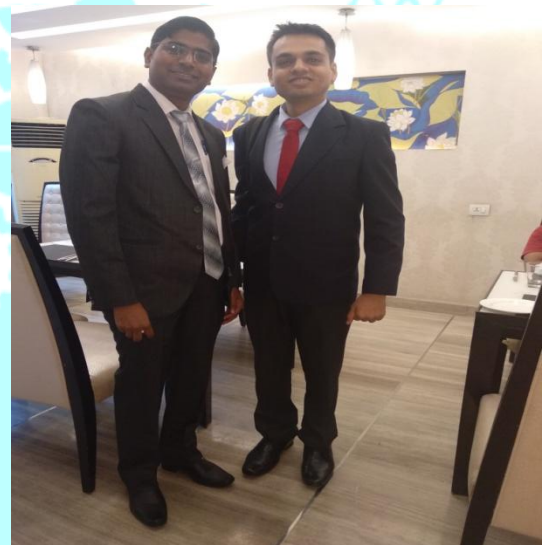


Advancement on CADD Tools and 3D printing Technology



Mr. Rajeev Bhargava from CADD centre, Jaipur gave a guest lecture on 8 October 2018

MSME Business Community Meet (BNI) -Gurugram Chapter



Mr. Satyendra Kumar (TPO OUTSET) from Mechanical Department attended MSME Business Community Meet (BNI) -Gurugram Chapter scheduled on 5th Dec, 2018 at 7:30 am at Gurugram



*A Report on ICT based Short Term Course
On
"Optimization Techniques and its
Engineering Applications"
December 10th – 14th, 2018*



The Department of Mechanical Engineering of Jaipur Engineering College and Research Centre, (JECRC), Jaipur organized a five-day long Faculty Development Program (FDP) in the form of an ICT based Short Term Course (STC) on the topic "**Optimization Techniques and its Engineering Applications**" from December 10 to 14, 2018. This STC Course was conducted in association with National Institute of Technical Teachers Training and Research, Chandigarh.





Day – 1: Monday, December 10, 2018

The ICT program was inaugurated by Guest of Honor, Prof. A Williamson, Registrar, Jaipur Engineering College and Research Centre, Jaipur in the Seminar Hall of the college. At this occasion, Prof. Williamson motivated the participants to organize and attend more of such FDP's, Prof. M.P. Singh, HoD, Department of Mechanical Engineering, expressed his views on the relevance and importance of the topic under discussion. Dr. Ruchi Mathur, HoD, Department of mathematics also discussed the scope of Optimization Techniques for inter disciplinary research.

Session 1: The session started at 11.30 AM, in which the Resource Person was eminent personality Dr. K.C. Lachhwani from NITTTR, Chandigarh. He gave an introduction to Optimization Techniques. He discussed the formulation of Linear Programming Problem with objective function, constraints and non negativity constraints and how to obtain feasible and basic feasible solution. He also introduced multi level programming.

Session 2: The session started at 2.00 PM. In this session, Dr. K.C. Lachhwani explained the formulation of LPP with the help of certain Numerical Problems. He also discussed the technique of Simplex Method, how to change inequalities into equations by the use of slack and surplus variables, to solve an LPP.

Day – 2: Tuesday, December 11, 2018

The second day of FDP witnessed two sessions. Both the sessions were jointly addressed by Dr. K.C Lachhwani. He divided his lecture into two parts:

Session 1: He first discussed the use of artificial variables in the LPP to get initial basic feasible solution. He also discussed in detail the Big- M Method and Two Phase Method to solve an LPP. Some cases like degeneracy and No solution were also discussed.

Session 2: The next session started at 2.00 PM. Dr. Lachhwani used certain numerical problems to verify Big-M Method and Two Phase Method. He also had an interactive session with the participants by discussing various problems and solutions with them. Participants also discussed their queries with him. The session was very informative and concluded at 4.00 PM.

Day – 3: Wednesday, December 12, 2018

Session 1: Dr. K.C Lachhwani discussed about formulation of Non Linear Programming Problem. He explained different methods of solving NLPP like Lagrangian method of multipliers and Kuhn Tucker conditions. He threw some light on necessary and sufficient conditions for maxima and minima. He supported his explanation with Numerical Problems using Lagrangian Method.

Session 2: The session started at 2PM and the resource person was Dr. B.S. Pabla, NITTTR, Chandigarh. He took the theoretical part of Optimization Techniques by discussing the objective, classification and Engineering applications of optimization Technique. He explained how this technique is applicable in various branches of Engineering.

Day – 4: Thursday, December 13, 2018

Session 1: The session started at 10 AM. The resource person was Dr. Amreek Singh, Scientist-F, DRDO, Chandigarh. He discussed Particle Swarm Optimization and Genetic Algorithm.

Session 2: This session started at 2PM. The resource person was Dr. K.C. Lachhwani. He introduced basics of Matlab.

Day – 5: Friday, December 14, 2018

Session 1: The session started at 10AM and the resource person was Dr. S.S Dhami, NITTTR, Chandigarh. He threw light on the formation and solution of Linear Programming Problem using MATLAB. He also discussed some problems with the participants using MATLAB.

Session 2: All the participants and course coordinators gave their feedback for the content delivered in the workshop and shared their experiences. The five day long workshop concluded with the vote of thanks given by course coordinator.





JUL-DEC 2018

PATHMAKER LEAGUE



Special Pre Placement Lecture for Pinnacle Info Tech Ltd.
by
Mr. Shrikant Bansal & Mr. Nitin Chhabra



A special lecture was organized by Mechanical Deptt. On 23 Aug 2017 for students of M.E, E.E & Civil for their upcoming placement of Pinnacle Infotech. The topic was basics of “Engineering Drawing” and it helped students a lot in their placement. Students were thankful to Mr. Shrikant Bansal & Mr. Nitin Chhabra for their valuable time & knowledge.

Face Training & Pre Placement Mock Drill
@ JECRC



FACE is a placement preparation institute providing assistance to the students in getting through the placements, Connect with a pool of experts and students across India. Get detailed information about the latest recruitment patterns of top Companies. Share campus interview experiences and aptitude questions. Take mock tests. Move closer to your dream job. One such special lecture was organised for the students of Mechanical final year to help them crack the different tests in the placement procedures. Different Experts from FACE have come to the JECRC campus and gave the students tips & techniques for Aptitude, Reasoning, G.D & H.R rounds



JUL-DEC 2018

PLACEMENTS 2019 BATCH



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JUL-DEC 2018



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PRATYUSH BHARDWAJ	Pinnacle
PRINCE KUMAR SHARMA	Paramount Research
PURU PRADHUMN SEN	Smart Circle Group
SHUBHAM WADHWA	FEV
SUDHANSHU RANJAN	Paramount Research
SURAJ PRAJAPATI	Just Dial
VIJAY KANT GAUR	Pinnacle
NAMAN VIJAYVARGIYA	Just Dial



Appeal group



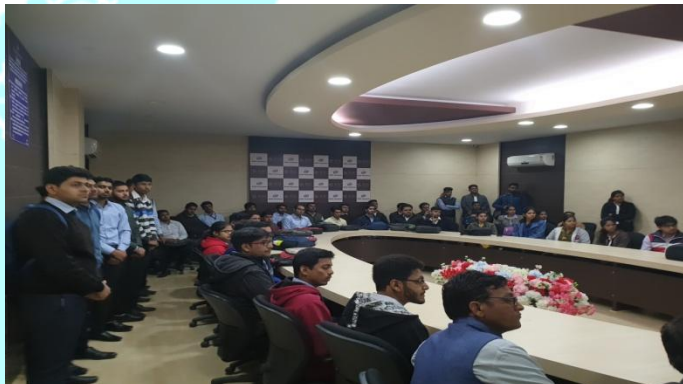
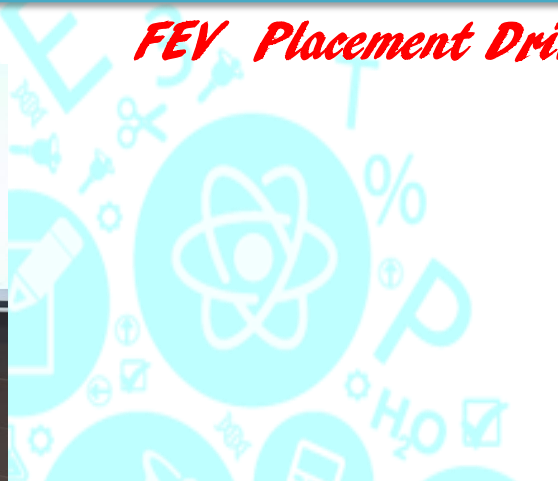
ASHOK LEYLAND

*TPO Mechanical Dept.- Mr.Kuldeep Sharma
Mr. Akhil Vijay*



JUL-DEC 2018

FEV Placement Drive





***Mrityunjay Mishra (RAS)
JECRC(2006-2010)***

I started with my academic journey at JECRC where I was a Mechanical Engineer of class in 2006-2010 Batch. During the preparation phase of life I was fully motivated & focussed on my target of getting into Job I always dreamt. It was not that easy as the journey to be an RAS was nothing less than a roller coaster ride. But one thing I would like to say that everyone should focus on the goals and not on the path to that goal.

I have fought for RAS got selected time in 2016. Through all my journey I was always thankful to JECRC for giving me such good environment & Education. I'll always be thankful to M.P Singh Sir for keeping me motivated & helping me out whenever I needed.

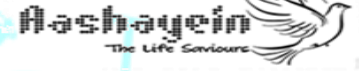
I extend my deepest gratitude to Arpit Sir & all the faculties of Mechanical Department for providing such a solid foundation and creative environment at JECRC .

All The Very Best.....

Thanks & Regards
Mrityunjay Mishra



Aashayein The Life Saviors



*Once more the heartthrobs,
To wipe the tears and comfort the sobs.
Each drop counting the lives,
Serving the most sublime exercise.*

Enshrining the instinct to encourage the eternity of saving lives, Aashayein-The Life Saviors organized a Blood Donation Camp on 23 October 2018, at JECRC Foundation and JECRC University.

The event was unfolded by welcoming the guests and lightening up the Diya in reverence of Maa Saraswati.

The motive of the camp was to develop the very need of humanity to escalate the hopes in many wretched faces.

The youngsters of this generation had actively participated in the camp with devoted zeal and commitment in their hearts.

The spirit of every enthusiast had raised and echoed the vicinity of the event to the high scales of success.

A total of 1578 units of blood was collected by the voluntary donations from the real life superheroes.

The event was overwhelmed by the gracious presence of Neeraj Sogani (Governor, Rotary club), Dr. Omprakash (IAS, RASP), Dr. B.S. Meena (Head Gynecologist), Bharti Singh (Founder, Praveenlata Sansthan).

These drops collected today will be the most precious gift to the mankind given by the heroes of life.

Team Aashayein salutes the extraordinary strive of these young enthusiasts for fixing the broken threads of life through their soulful selfless donations.



आर्मी के लिए कॉलेज स्टूडेंट्स ने किया ब्लड डोनेट

डेली न्यूज, mix रिपोर्टर, जयपुर। रक्तदान महादान। यहाँ सबसे बड़ा दान है, जिससे जीवन को बचाया जा सकता है। इसी उद्देश्य के साथ जयपुर में टॉक रोड स्थित जेईसीआरसी फाउंडेशन की ओर से मंगलवार को रक्तदान शिविर आयोजित किया गया। सुबह 10 बजे से शाम 5 बजे तक 1578 यूनिट रक्त एकत्रित किया गया जिसमें 206 यूनिट ब्लड ग्लूब्स ने डोनेट किया। इसमें 62 फीसदी ने पहली बार डोनेट किया है। इस शिविर की खास बात है कि इसमें एकत्रित यूनिट में से 70 फीसदी से अधिक हिस्सा आर्मी जवानों और उनके परिवारों के लिए भेजा जा रहा है। शेष यूनिट शहर में डेंगू और अ बीमारियों से पीड़ितों के इलाज में काम आएगा। इसमें सिंगल डोनर फ्लेटलेट्स, एसडीपी दान किया गया। यह शिविर जेईसीआरसी फाउंडेशन के आशाए-द लाइफ सेवियर्स ग्रुप और से आयोजित किया गया। इसमें रक्तदान के साथ ही 5 हजार से अधिक ने रक्त करने का संकल्प पत्र भी भरा।



11 साल में 12714 यूनिट डोनेट

पिछले 11 वर्षों से शिविर में अभी तक 12714 यूनिट रक्तदान हो चुका है। शिविर रक्तदाताओं का हौसला बढ़ाने के लिए चीफ गेस्ट लोकायुक्त जस्टिस एस.एस.कोठरी अलावा डॉ. ओमप्रकाश, भारती सिंह, डॉ. बी.एस. मीणा, रोटेरियन कैप्टन नीरज सोणा रोटी ब्लड जयपुर सिटीजन के रोटेरियन सुधीर जैन, प्रयास एवं कोन्दी समाज से संस्थाओं के सदस्य पहुंचे। जेईसीआरसी के डायरेक्टर सोशल इनिशिएटिव ओ.पी. जैन ए कैम्प कॉर्डिनेटर प्रो. कुलदीप शर्मा, प्रो. डॉ. जगदीप सिंह भी उपस्थित रहे।



Wed, 24 October 2018
epaper.dailynews360.com/c/33362634





Ashok Gehlot 
@ashokgehlot51



I appreciate the role of these young students, who are doing a commendable service to the society. @thelifesaviours #Jaipur #Rajasthan pic.twitter.com/IPc8ktjPKc

2:09 AM - 3 Mar 2017

Real life **Heroes**

ये इंजीनियरिंग स्टूडेंट्स हैं, लेकिन इन्हें शहर के सभी हॉस्पिटल वाले पहचानते हैं, जानिए कैसे?

इंटरनल और मिडटर्म एग्जाम मिस कर पहुंचे ये प्लेटलेट्स डोनर

- 80 से 100 मेंबर हैं ग्रुप में
- 30 से 40 गर्ल्स
- 3 साल से एक्टिव
- 950 लाइफ सेव कर चुके हैं अभी



ये भी परीक्षा...

ग्रुप के मेंबर और इंजीनियरिंग बर्ड्स इंवर स्टूडेंट रजल कारणा ने बताया कि पिछले साल हॉस्पिटल में एक बच्चा डेंगू से पीड़ित नाजुक हालत में भती था। जाम को हॉस्पिटल से फोन आया। मैं और स्टूडेंट प्रतीक शिरोमा पहुंचे, पर उस दौरान हमारे सिर्फ टेस्ट ही हो पाए। हॉस्पिटल प्रशासन ने कहा, सुबह ज्वाइ देने अना होगा। हम सुबह पहुंच गए, पर कुछ देर बाद ही हमारा एग्जाम था। प्रतीक ने प्लेटलेट्स डोनेट की, इस वजह से



हमें काफी देर हो गई थी। इस दौरान हमारा इंटरनल एग्जाम मिस हो गया, लेकिन उस बच्चे की जान बच गई। इसने हमें काफी मोटिवेट किया। फिर एग्जाम को एक्सटर्नल में कवर करना पड़ा। रजल ने बताया कि हम ज्वाइ बैकिंग इंचार्ज से कनेक्ट हो रहे हैं। जब उनके पास कोई अर्पान नहीं बचता तो हम मौजूद होते हैं।

अजनबी से मिला आशीष

ग्रुप मेंबर बन्नाराम सारंग ने बताया कि सीतापुर स्थित हॉस्पिटल में डेंगू का पेशेंट भर्ती हुआ। वह इतना सीरियस था कि उसके इंटरनल ब्लॉडिंग शुरू हो गई। उनके भाई ने मुझे रात एक बजे फोन कर कहा कि हमारे यहां कोई रिफ्लेयर नहीं है और एबी पॉजिटिव ब्लड की जरूरत है। मैं हॉस्पिटल पहुंचा तो रात में ब्लड लेने से मना कर दिया गया। इसके बाद मैं सीतापुरा के हो दूसरे हॉस्पिटल पहुंचा और वहां प्लेटलेट्स डोनेट की। पेशेंट ने रिक्वायर करना शुरू कर दिया। उसने कहा कि मेरा नया जीवन अफकी बलह से ही संभव हो पाया। बन्नाराम ने इसी तरह मिड टर्म एग्जाम मिस कर छह साल की बच्ची की जान बचाई थी।

खुद को डेंगू हुआ, लेकिन दूसरों की बचाई जान



इंजीनियरिंग स्टूडेंट प्रीतिका का ने बताया कि पिछले साल अक्टूबर में मुझे डेंगू हो गया था। इसके उपचार रात को टैबल कर मैं जल्द ठीक हो गई थी एबी पॉजिटिव ब्लड की लीड आ गई। पेशेंट की रिपोर्ट हो हजर हो प्लेटलेट्स रह गई थी, ऐसे में वह बच्ची सीरियस कंडीशन में था। मैंने स्टूडेंट प्रमोद किशोर से बात की। वह तैयार हो गया। हमने पहुंचकर उसे बचा दिया। इस कंडीशन में दो घंटे लगे।

Twitter

By: Ashok Gehlot @ashokgehlot51

Suhasini : An Initiative To Save The Smile Of Girl Child



जयपुर भास्कर

आमेर में नुक्कड़ नाटक के माध्यम से बेटी बचाओ बेटी पढ़ाओ का संदेश

भवदत्त कुमार, आमेर



Team Suhasini has organized their fifth road show at Amber Fort on 21st October 2018. Where they gave a chance to contribute to cause and showcase your talent in the fields of poetry, dancing, singing or any other activity sending a message to the society, this was the finest opportunity anyone can grab. Address a crowd of thousands with your thoughts!

"Change can be brought about by the number of advocates it has." The massive support received by us for our Road Show held at Amber Fort was overwhelming.

The response of JECRC'ians for the road show has encouraged us to aim higher and achieve more. Your presence on the day of event has strengthened our embodiment. This Road show was an epic proportion that not only entertained everyone but also forced everyone to stop and think, to evaluate the conditions of women in today's society.

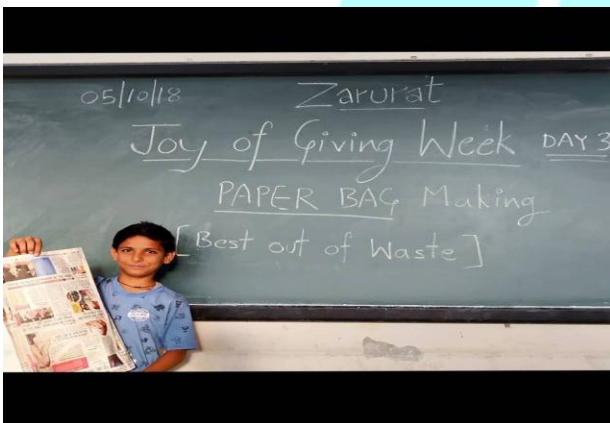


The festival of Philanthropy, 'Joy of Giving Week' has always governed its auspiciousness at our campus and like every year, Team Zarurat celebrated with the same keenness and enthusiasm in JECRC foundation.

The first chapter of Joy Of Giving Week was initiated with Postcard Writing Activity.

The second chapter of the 'Joy of Giving Week' was all about children expressing themselves through dance. A big thanks to Ms. Shefali Jain who took time to come and helped us in adding another pearl in the treasure chest of memories that we have made with our kids. With the same thought, the third chapter of the Joy of Giving Week was 'Best out of Waste' activity session in which the kids made paper bags using old newspapers. Another fascinating day of Joy Of Giving week, blended with blossoming waves of laughter, engulfed the cheerful and innocent faces of our little kids.

The fourth day of this event was dedicated to a 'Cultural Program', in which the children got the opportunity to perform various activities like dance, singing etc. The fifth day of the 'Joy Of Giving Week' was all about being congenial with the animals around. Team ZARURAT organised an 'Eye Check-up' camp as the sixth chapter of the Joy of Giving Week.



Hosts for this evening !



**JOGW - Day 5
Nahargarh Biological Park
Visit**



**Joy of Giving Week
Day 6**



Eye check-up



JOGW - DAY 7



Goodie Bag Distribution



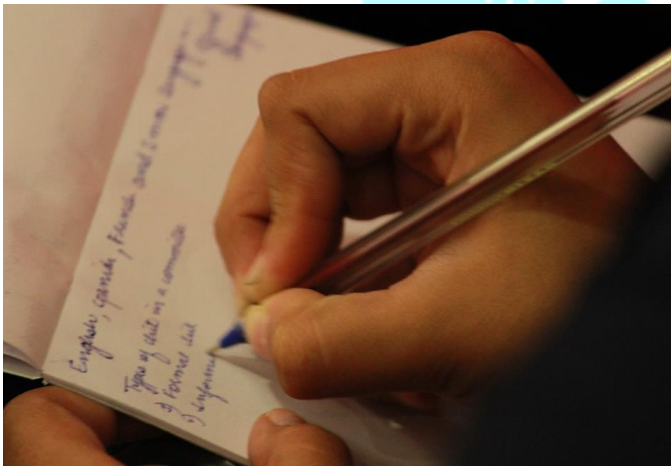
JECRC INTRA MUN was organized on 9 September 2019 and we were extremely overwhelmed to witness all the delegates with such a wonderful energy. The event started with the inaugural ceremony and we were very grateful to have respected P.K. Tiwari Sir with us. Also, the presence of our Alumnae made the event even more remarkable.

After inaugural and high tea, the delegates moved to their respective committees for their first session. All the delegates actively listened to the Rules of Procedure as told by the respective EBs and contributed their two cents.

We were honoured to have Shri P.K. Tiwari sir with us for the lamp lighting in the inaugural ceremony. Also, the presence of the Executive Board, who were a great and excellent group of inspiring people made the aura even more wonderful.

Not only the delegates were eager to keep their views but also, they were ready to make a difference by their vision towards the society. The enormous amount of energy which the delegates brought with them for the conference was continuously pumped up during the high tea, food sessions and lastly, at the socials.

Our legacy of motivating and supporting the leaders has been carried forward once again.





JUL-DEC 2018



JUKEBOX

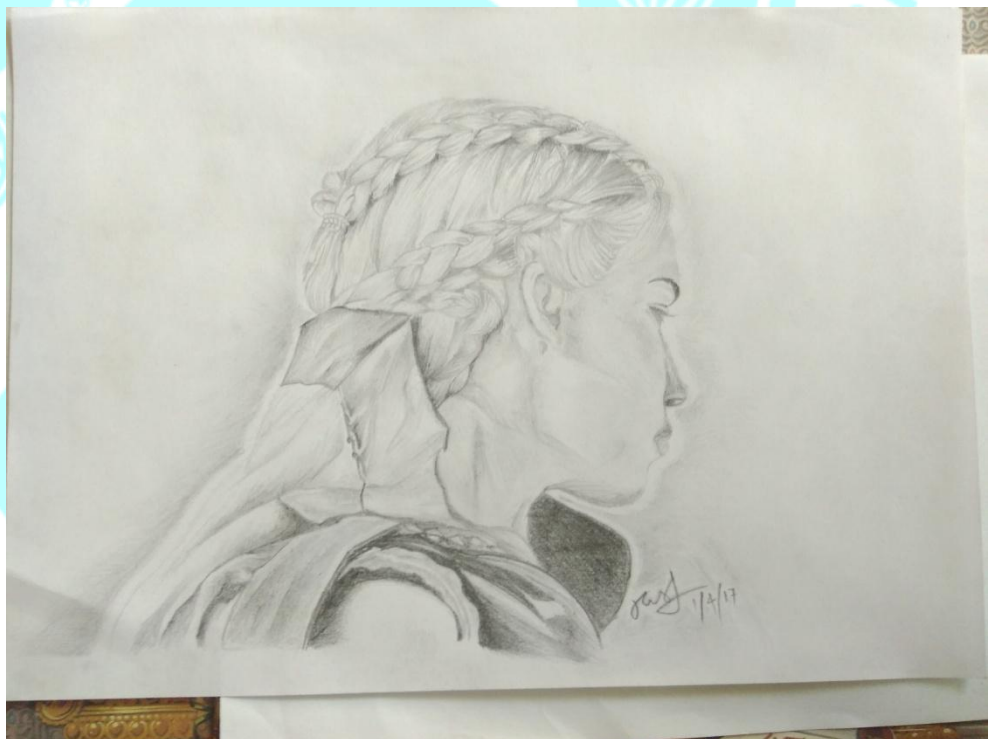


Artist Column
By
Balkishan
VIA M.E



Artist Column

*By
Yash Jaitawat
VIB M.E*



ICONIC PERSONALITIES

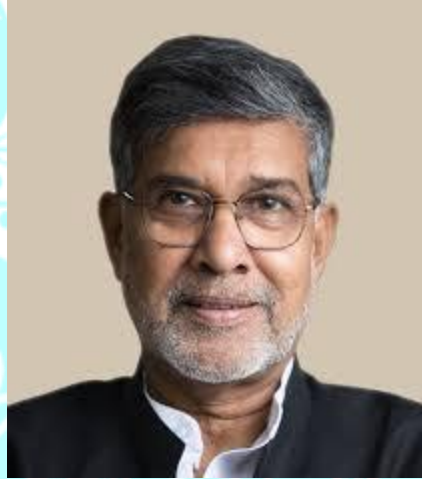
*Late Sh. Atal Bihari Vajpayee Ji
(A Gem we lost)*



Mr. Vajpayee's long career in public life was no doubt crowned by his being elected Prime Minister, but the course of it was peppered with long years as a parliamentarian, and with struggles to establish the Bharatiya Jana Sangh, and later the BJP, in National Politics. Born on December 25, 1924 in Gwalior, Mr. Vajpayee was elected 10 times to the Lok Sabha from four different States (the first time in 1957 from Balrampur in Uttar Pradesh), and was twice a Member of the Rajya Sabha in a storied career. He got an early start in public life when he got involved in the Quit India Movement of 1942 and was arrested for it. He was already a member of the Rashtriya Swayamsewak Sangh (RSS) since 1939, and after finishing Masters in Political Science from Kanpur, he began to work full-time for the RSS. One of the founding members of the Jan Sangh in 1951, Mr. Vajpayee became its president in 1968 upon the death of Deendayal Upadhyaya. As his parliamentary career flourished, Mr. Vajpayee made a name for himself as an orator and for his poetic flourishes. His poetry, collated in his book *Meri Ekyavan Kavitayein* (My 51 Poems) reflect it. During his term as caretaker Prime Minister, Mr. Vajpayee dealt with the Kargil war — a conflict with neighbouring Pakistan, something that tested the country and his own mettle. The following elections in 1999 saw the NDA ensconced with a comfortable majority and a government that lasted a full term till 2004, the first non-Congress government to do so. Mr. Vajpayee undertook many reform measures with regard to the economy, keeping it on the liberalisation track despite resistance from the RSS. His efforts at a solution for issues affecting Kashmir are still the most accepted template for political dialogue. What he says of himself and his long career in India's public life is probably best encapsulated by some lines from his poem:

टूटे हुए सपनों की कौन सुने सिसकी
अन्तर की चीर व्यथा पलकों पर ठिठकी
हार नहीं मानूँगा, रार नहीं ठानूँगा,
काल के कपाल पे लिखता मिटाता हूँ
गीत नया गाता हूँ

Sh. Kailash Satyarthi



Sh. Kailash Satyarthi (born **Kailash Sharma**; 11 January 1954) is an Indian children's rights activist. He is a Nobel Peace Prize recipient and founder of Bachpan Bachao Andolan (lit. Save Childhood Movement), the Kailash Satyarthi Children's Foundation, Global March Against Child Labour, and GoodWeave International.

To date, Sh. Kailash Satyarthi and his team at Bachpan Bachao Andolan have liberated more than 87,000 children in India from child labour, slavery and trafficking. In 1998, Satyarthi conceived and led the Global March against Child Labour, an 80,000 km-long march across 103 countries to put forth a global demand against child labour. The movement became one of the largest social movements ever on behalf of exploited children. The demands of the marchers, which included children and youth, were reflected in the draft of the ILO Convention 182 on the Worst Forms of Child Labour. The following year, the Convention was unanimously adopted at the ILO Conference in Geneva.

Sh. Kailash Satyarthi has been a member of a UNESCO body established with the goal of providing "Education for All" and has been on the board of the Fast Track Initiative (now known as the Global Partnership for Education). Satyarthi serves on the board and committee of several international organisations including the Center for Victims of Torture (USA), the International Labor Rights Fund (USA), and the International Cocoa Foundation.

Satyarthi was among Fortune magazine's 'World's Greatest Leaders' in 2015 and featured in LinkedIn's Power Profiles List in 2017 & 2018. His work has been recognized through various national and international honours and awards including the Nobel Peace Prize of 2014, which he shared with Malala Yousafzai of Pakistan.

More recently, Satyarthi led a nationwide march, Bharat Yatra, in India covering 19,000 km (12,000 mi) in 35 days, to spread awareness about child sexual abuse and trafficking.

From the diary.....

*Where the mind is without fear and the
head is held high;
Where knowledge is free;
Where the world has not been broken up
into fragments
By narrow domestic walls;
Where words come out from the depth of
truth;
Where tireless striving stretches its arms
towards perfection;
Where the clear stream of reason has not
lost its way;
Into the dreary desert sand of dead habit;
Where the mind is led forward by thee;
Into ever-widening thought and action;
Into that heaven of freedom,
My Father, let my country awake*

Sh. Rabindranath Tagore

FACULTY PROFILE

DEPARTMENT OF MECHANICAL ENGINEERING



Dr Mahendra Pratap Singh
Professor, HoD



Mr Manish Jain
Associate Professor



Dr. Fauzia Siddiqui
Professor (Dy.HoD)



Dr Bhuvnesh Bhardwaj
Associate Professor



Dr Manish Srivastava
Associate Professor



Dr. Rishi Pareek
Professor



Mr Kuldeep Sharma
Assistant Professor



Mr Lalit Kumar Sharma
Assistant Professor



Mr Tejendra Singh
Assistant Professor



Mr Satyendra Kumar
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Mr Ankush Sharma
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Mr Tejaram Saini
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Assistant Professor



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Sr Lab Instructor



Mr Hanuman Prasad Saini
Sr Lab Instructor



Mr Hemant Naiwal
Lab Instructor



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Lab Instructor



Mr Anil Prajapati
Lab Instructor



Mr Narendra Singh
Lab Instructor



Mr Sunil Kumar Yadav
Lab Instructor



Mr Birsingh Sirowa
Lab Instructor



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