



E-MECHZINE



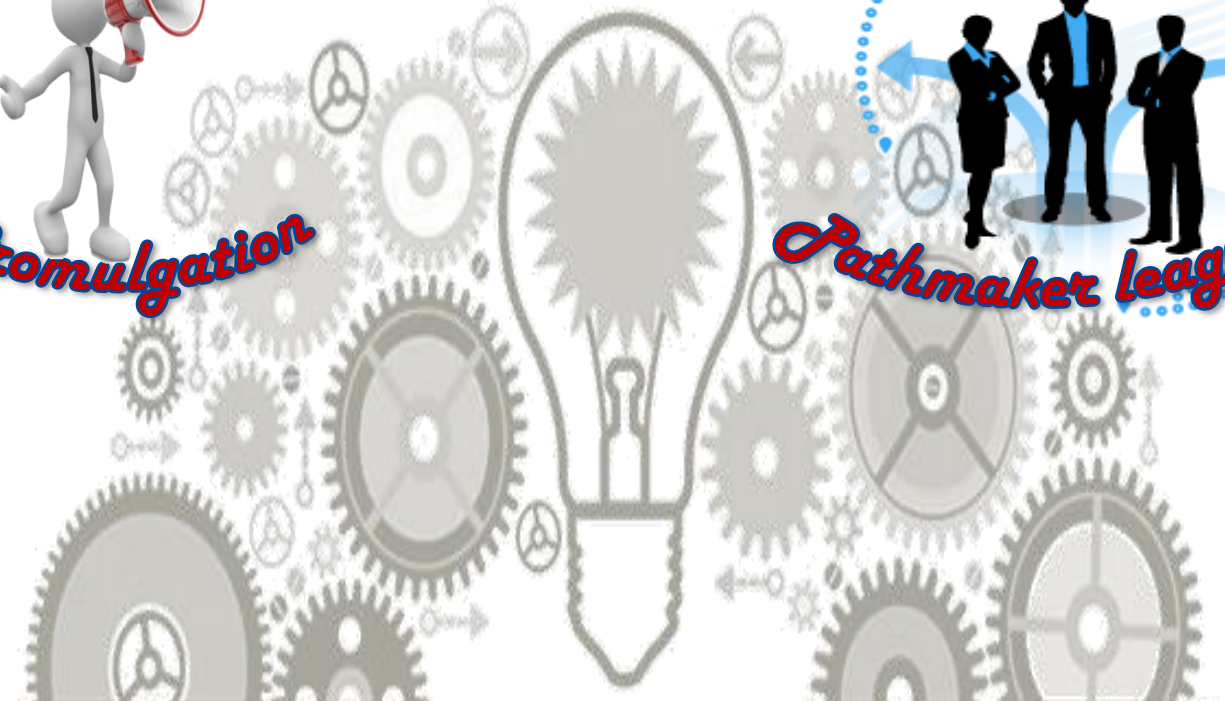
SEVENTH ISSUE **JUL-DEC 2019**



Promulgation



Pathmaker league



Duke Box



Colloquium



JECRC Foundation

125 DAYS, 90 COMPANIES

1735 PLACEMENTS

35% Female Placement / Highest Package: 41.00 LPA

AS ON 24TH DECEMBER 2019



WHEN WE DO, WE DO IT BIG

Dear JECRCians, Hope you are doing well.

Thank You for Keeping with us!!

Making a transition from 2019 to 2020, the epilogue of the year passed by can be pronounced as at top-of-ladder for JECRC Foundation, witnessing a phenomenal accomplishment of 1735 placements in 125 days with 90 pinnacle MNCs- Multi National Companies.

The colossal season of placement for fall semester, 2019, reclined on 31st December with an overwhelming aftermath feat. It began with come-at-able Accenture on 11th August 2019, giving an outstanding kick-off to the placements. The success rail has been preceded by actualization of learnings of erudition over the years with the outstanding execution by TPO(Training & Placement Office) paving ways to not only the attainment but also of setting up a benchmark in education. Our results and accomplishments have widened our recognition from being best-in-education in Northern India to being acknowledged across the globe. Numbers alone cannot substantiate placements. It is a constant effort towards academic excellence proclaiming results.

I congratulate our super squad of 12 members of TPO who have mobilized the placement goals concreting the framework with immense commitment and resolution. The endless hours that they have spent working to realize the organizational missions, thereby stepping towards the vision. and the professionalism shown is commendable. It has raised the spirits of the entire JECRC team immensely.



Success Bolt-Uprights:

Recruitment trends in this placement season has witnessed several changes which largely depends on the current and forecasted industry developments. Realizing the need of the hour we have delved into some great initiatives that have contributed to attain great numbers.

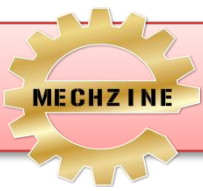
- Top Tier Companies are adopting competitive programming through contests and challenges. To seize the breakthrough, a dedicated Cell for Company Contest(CCube) has been established with the ideation of competition-based hiring by top-notch companies conducting coding challenges like TCS Ninja, Enquode and codevita, thereby establishing us as the pioneers in tapping up the vertical. 300 students have been enlisted with TCS assisted by CCube.
The institution of the outset cell in 2019, with a praiseworthy placement count of 350 students has been an achievement.
A fantastic starting compensation of 6-10 Lakh annual package has been bagged by 200 students with a pivotal focal arena in Business Development & Management Profiles offered by industry Zenth like BYJU's and EY.
The state-of-the-art schools of JECRC University, listed as School of Design, School of Law, School of Hospitality & Hotel Management and School of Journalism & Mass Communication are paced way-up and achieving considerable placements with best in- industry firms, despite being a newbie in JECRC setup.

I proudly announce the intensification of the Training & Placement scenario across JECRC Campuses with a successful milestone achieved which in turn entrusts us for greater commitment and results.

Thank you. 😊

Always Yours!! ARPIT AGRAWAL VICE-CHAIRPERSON director@jecrcmail.com





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

❖ MESSAGE	2
❖ Table of Contents	3-4
❖ OPINE-A Pearl From The Torchbearer	5-7
○ Director's Desk	
○ Principal's Desk	
○ HoD's Desk	
❖ Vision and Mission	8
❖ Program Outcomes	9
❖ Program Educational Objectives	10
❖ PROMULGATION-A Rhythm of Events	
○ Students Achievements	12-14
○ Faculty Achievements	15-17
○ Induction Day	18-19
○ 73 rd Independence Day	20
○ Degree Distribution 2019 Batch	20
○ Sh.Shivraj Singh Chouhan@JECRC	21
○ Vishkarma Day@ JECRC	21
○ Teachers Day@JECRC	22-23
○ 150 th Gandhi Jayanti	24
○ RTU's Smart Buisness Hackathon	25-26
○ "Step up your life" by Brother Charlie Hogg	27
❖ COLLOQUIUM	
○ Workshop on Virtual Lab	29
○ 3-D Printing Workshop	29
○ Industrial Visit CIPET	30
○ Expert lecture	31
○ Guest Lecture on Fluid Mechanics	31
○ Guest Lecture on MATLAB	32
○ Guest Lecture on CADD	32
○ Gail Industrial Visit	33-34



○Guest Lecture by AlonTal	35
❖ PATHMAKER LEAGUE	
○Pre-Placements training	37
○Alumni session for placement	38
○Special Lecture	38
○Jump Start Placements	39-40
○Placements at a Glance	41
○HR Conclave	42
○Alumni Speaks	43
○Aashayein	44-45
○Bol 2.0	46-47
○Zarurat	48-49
○Road Show by Suhasini	50
○MoU with IP curate Labs	51
○Workshop on Autonomous Driving	52
○70 th Constitution Day	53
❖ JUKE BOX	
○Artists Column	55-56
○Mr.Anand Mahinda	57
○From the Diary.....	58
❖ 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.

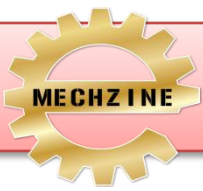
With our Sixth Issue of E-MECHZINE we put forward a distinctive blend of offerings in the areas of engineering & technology in the form of different activities throughout the year.

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.

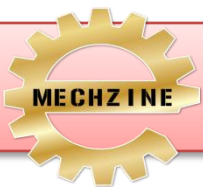
VISSION AND MISSION OF MECHANICAL DEPTT.

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.

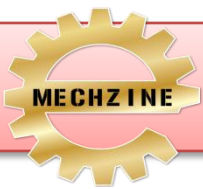
MISSION OF DEPARTMENT

- 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.



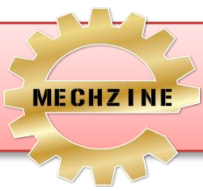
PROGRAM EDUCATIONAL OBJECTIVES

- 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).

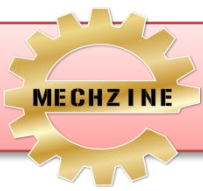
PSO2. Apply the knowledge of mechanical engineering and advance software to create 3D models, assembly, design and simulation.



JULY-DEC 2019

PROMULGATION

*“A
RHYTHM
OF
EVENTS”*



STUDENT ACHIEVEMENTS

SEMESTER TOPPERS

<u>SEMESTER</u>	<u>SHIFT</u>	<u>NAME</u>	<u>%</u>
IV th	I st	DEEYA SHARMA	78.7
	II nd	ROHIT TANWAR	75.2
VI th	I st	AJAY SHARMA	78.1
	II nd	VARUN GAUTAM	75.0
VIII th	I st	DEVESH LALA	84.9
	II nd	NEERAJ PARASHAR	82.6

BEST RESEARCHER AWARD 2019

Proud moment for JECRC Mechanical Department as our Faculty Mr. Manish Shrivastava & our Alumni Mr. Mihir Panchal won "RESEARCH PEACE AWARD 2019" for the excellence in "Six Sigma: Green belt & Black Belt" by RULA Awards.



TEAM MOONRIDERS

13	20017	INSTITUTE OF ENGINEERING AND TECHNOLOGY, DEVI AHILIYA VISHWAVIDYALAYA, I
14	20204	JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE
15	20148	SIES GRADUATE SCHOOL OF TECHNOLOGY
16	20241	BIRLA VISHVAKARMA MAHAVIDYALAYA (ENGINEERING COLLEGE)
17	20065	SINHGAD ACADEMY OF ENGINEERING KONDHWA, PUNE
18	20084	DWARKADAS JIVANLAL SANGHVI COLLEGE OF ENGINEERING
19	20266	RIZVI COLLEGE OF ENGINEERING

JECRC & whole Mechanical Department are proud to announce that Team Moonriders made us feel proud by securing 14th Rank all over INDIA SAE BAJA VIRTUAL 2019.



FACULTY ACHIEVEMENTS

3D PRINTING FDP @ PEC

Dr. M.P Singh HoD, Mr. Kuldeeo Sharma & Mr. Satyendra Kumar faculty Mechanical Department JECRC attended faculty Department Program on 3 D Printing at Poornima Engineering College, Jaipur



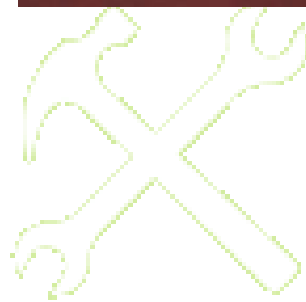
STATE LEVEL WORKSHOP @MNIT JAIPUR

Dr. M.P Singh HoD M.E Department attended a state level workshop on New Education Policy in Context of Technical Education in Rajasthan was jointly organized by Technical Education Rajasthan & RTU Kota at MNIT, Jaipur on 13 August 2019.



FDP @ SKIT JAIPUR

Dr. Rishi Pareek, Dr. Manmohan Siddh & Mr. Lalit Kumar Sharma Faculty Members Mechanical Department attended a five day TEQIP sponsored FDP on "Data Analytics for Engineers & Researchers" from 26-30 August 2019 at SKIT Jaipur.



Faculty Publications & Achievements

1. Dr. M.P Singh HoD M.E Research Paper entitled “Descriptive Analysis through Survey for Sustainable Manufacturing” published in Proceedings of International Conference on Advancements in Computing & Management (ICACM)2019, SSRN Oct. 2019.
2. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Dry sliding wear behaviour of Al7075/Al₂O₃ /B4C composites using mathematical modelling and statistical analysis” published at Material Research Express in press [https:// doi.org/10.1088/2053-1591/ab546a](https://doi.org/10.1088/2053-1591/ab546a).
3. Mr. Lalit Sharma got his research paper entitled “Effect of Arm Posture and Isometric Hand Loading on Shoulders Muscles” Presented at International Conference on Deep Learning, Artificial Intelligence and Robotics, 2019 held from December 07, 2019 to December 08, 2019 at Malaviya National Institute of Technology, Jaipur and submitted for Springer Proceedings.
4. Dr. M.P Singh HOD M.E published his paper entitled “Noise Reduction of Deep Groove Ball Bearing (6205) by Process Optimization - An Experimental” in International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249-8958, Volume-8 Issue-5, June (1052-1061) (Scopus Index Journal, Elsevier SSRN) .
5. Dr. M.P Singh HOD M.E published his paper entitled “Barriers analysis for sustainable manufacturing implementation in indian manufacturing industries using interpretive structural modelling” 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).
6. 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” Journal of the Mechanical Behavior of Biomedical Materials 99 (2019) 86–92

7. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Resin based restorative dental materials: characteristics and future perspectives” published Japanese Dental Science Review 55 (2019) 126–138 AIP Conference Proceedings 2148(1):030020 • September 2019 7.
8. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Effect of welding current on the metallurgical and Corrosion performance of AISI304SS cladding” published in 6th International Conference on Production and Industrial Engineering (June 8-10, 2019) .
9. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Multi response optimization of EDM machining parameters using Taguchi methodology with grey relational analysis” 6th International Conference on Production and Industrial Engineering (June 8-10, 2019).
10. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Investigation of mechanical properties in silicon carbide filled carbon fiber composites” 6th International Conference on Production and Industrial Engineering (June 8-10, 2019)
11. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Air erosion behaviour of SiC filled carbon fiber-epoxy composites” 6th International Conference on Production and Industrial Engineering (June 8-10, 2019).
12. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Effect of tool rotation on metal removal rate during electric discharge machining of Hastelloy C-276” 6th International Conference on Production and Industrial Engineering (June 8-10, 2019).
13. Dr. Bhuvnesh Bhardwaj got his research paper entitled “Effect of tool rotation on surface roughness during electric discharge machining of Hastelloy C-276” 6th International Conference on Production and Industrial Engineering (June 8-10, 2019).
14. Dr. M.P Singh HoD M.E got his book published in The fundamentals of Internal combustion Engines(ISBN 978-613-9-93122-4) published by LAP LAMBERT Academic publishing.

INDUCTION DAY 1st AUGUST 2019

Embarking upon the journey of most memorable four years of one's life, the new students were extremely joyous to see elaborate preparations for their welcome. With a flower-decked entrance to give a fragrant welcome, they stepped in the campus with a bright tilak



The delight deepened when senior students rewarded them with batches of #nowjecrcian, truly assimilating them in the JECRC family. To keep them reminded of the fact that they are here to leave a mark, imprints of their hands were secured. Campus visit and group photographs sealed this deal of first college day excitement. College life is a very crucial part of one's life and to begin it with bundles of blessings an induction ceremony for the students was conducted in JECRC campus. With the lamp lighting by honourable Dr. Vinay Chandna, Principal, JECRC Foundation, Shir Arpit Agrawal, Director JECRC Foundation, Placement head Shri Mukt Bihari, Shri Amit Agarwal, Director, JECRC University, Rajasthan, Distinguished alumni Mr Pranav Chaturvedi and students coming from various states of the country, the event was graciously commenced.



The students were endowed with kind words of honourable dignitaries and were bestowed with the journey of their senior, a proud alumni Mr Pranav Chaturvedi. The event ended with National Anthem, filling the people with Pride, Pleasure and Wisdom.

73RD INDEPENDENCE DAY

JECRC celebrated 73RD Independence Day with lot of zeal, enthusiasm and patriotism in our hearts. The chief guest Prof. S.N Gupta Senior Advisor JECRC, hoisted the National flag followed by the National Anthem. Chief guest then 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.



DEGREE DISTRIBUTION 2019 BATCH



Degree distribution ceremony for 2017-18 passed out batch was held on 19 August 2019. Alumni from all the branches were present at the function. Dr. VK Chandana Principal JECRC along with HoD's presented Degree to all the students.

Sh. SHIVRAJ SINGH CHOUHAN@JECRC

JECRC was glad that Ex-chief minister of MP Sh. Shivraj Singh Chouhan along with other dignitaries addressed the faculty members today on 19-08-19 at in the auditorium. All the faculty members attended the session and everyone at the Institute were glad to have him with us.



VISHWAKARMA JAYANTI



JECRC Mechanical department celebrated Vishwakarma Jayanti on 17 Sept. It is a day of celebration for Vishwakarma, god, the divine architect. He is considered as swayambhu and creator of the world. He constructed the holy city of Dwarka where Krishna ruled, the Maya Sabha of the Pandavas, and was the creator of many fabulous weapons for the gods. He is also called the divine carpenter, is mentioned in the Rig Veda, and is credited with Sthapatya Veda, the science of mechanics and architecture.

TEACHERS DAY @ JECRC

In the honor of Birth Anniversary of second President of India, Dr. Sarvepalli Radhakrishnan, 5th Sept. is celebrated as Teacher's Day since 1962.



It creates a bond of faith between both the teachers and the students. The Teacher's Day was also celebrated in the Mechanical Engineering Department of JECRC foundation. The students of 3rd & 5th semester managed the event in a good manner. There was peace and pretty environment everywhere. All students welcome the teachers in a proper way. Welcome speech was delivered in honor of the teachers. The event started by cutting of cake. HoD Sir of ME Department Dr. M.P. Singh was invited on the stage to share his experience on the event and to give the right direction for future of the students.



They share their own experience of life to get succeed. Some more known personalities of department were also invited to deliver some thoughts, Dr. Fauzia Siddiqui, Mr. Kuldeep Sharma, Dr. Manish Shrivastva, Mr. Lalit Kumar Sharma, Mr. Yogesh Dubey, Mr. Abhishek Kumar, Mr. Manmohan Siddh and many more teachers shared their experiences with the students and give them the right path of success.

The whole event was very exciting and the event was ended with some refreshment to faculty members and staff.

150TH GANDHI JAYANTI @ JECRC

On 2nd October JECRC ME Dept. celebrated 150TH anniversary of SH. MHATAMA GANDHI and 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.

Various activities were organised by ME Dept.
 ESSAY COMPETITION ON "GANDHI JAYANTI"
 DEBATE COMPETITION
 EXTEMPORE
 GROUP DISCUSSION

स्वच्छता शपथ

महात्मा गांधी ने जिस भारत का सपना देखा था उसमें सिर्फ राजनीतिक आजादी ही नहीं थी, बल्कि एक स्वच्छ एवं विकसित देश की कल्पना भी थी। महात्मा गांधी ने युवाओं की जंजीरों को तोड़कर उन्हें भारतीयों को आजाद कराया। अब हमारा कार्यक्षेत्र है कि गांधीजी को दूर करके भारत नयासा की सेवा करें। मैं शपथ लेता हूँ कि मैं स्वयं स्वच्छता के प्रति सजग रहूँगा और उसके लिए समय दूँगा।

हर वर्ष 100 घंटे यानी हर सप्ताह 2 घंटे अमदान करके स्वच्छता के इस संकल्प को धरितार्थ करूँगा।

मैं न गंदगी करूँगा न किराी और नो करने दूँगा।

सबसे पहले मैं स्वयं से, मेरे परिवार से, मेरे मुहल्ले से, मेरे गांव से एवं मेरे कार्यक्षेत्र से शुरुआत करूँगा।

मैं यह मानता हूँ कि दुनिया के जो भी देश स्वच्छ दिखते हैं उसका कारण यह है कि वहाँ के नागरिक गंदगी नहीं करते और न ही होने देते हैं।

इस विचार के साथ मैं गांव-गांव और गली-गली स्वच्छ भारत मिशन का प्रचार करूँगा।

मैं आज जो शपथ ले रहा हूँ, यह अन्य 100 व्यक्तियों से भी करवाऊँगा।

वे भी मेरी तरह स्वच्छता के लिए 100 घंटे दें, इसके लिए प्रयास करूँगा।

मुझे मालूम है कि स्वच्छता की तरफ बढ़ाया गया मेरा एक कदम पूरे भारत देश को स्वच्छ बनाये मैं मदद करूँगा।





The Technical State Minister Dr. Subhash Garg and all the dignitaries visited JECRC's Spiritual Research Cell and marked SBH's beginning after the inauguration ceremony. NASA's judges assisted the participants elucidating them about their challenges. SBH teams were mentored individually and rendered plans to set off successful startups. The dignitaries and participants had lunch to boost up their energy.

After 400+ registrations pulling through, percipient words from the venerable chief guests, satisfying meals, NASA Space Apps Challenge and RTU'S Smart Business Hackathon witnessed the mentoring session-2 in the latter part of the day. The judges evaluated all the team's performances and the participants are now on run mode for their marathon of success Day-2 of the 36-hour long Hackathon began in full swing. Even though all the participants were working for prolonged hours, their energy still reverberated throughout the atmosphere. All the candidates worked super hard to crack the evaluation round. It was the final round for NASA's teams and SBH witnessed its evaluation round 2.

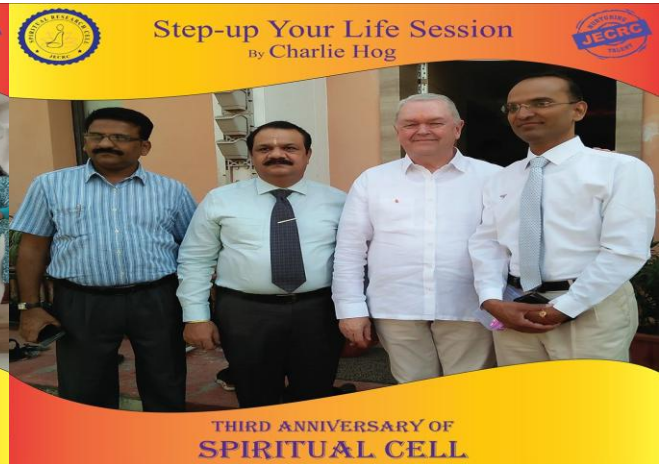
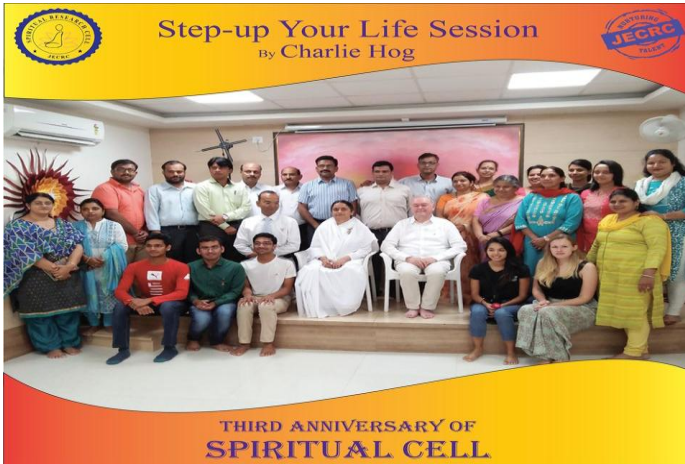
What would you want if you're a budding entrepreneur with a stupendous startup idea? An Angel Investors Meet! And that's how our SBH teams got an exclusive opportunity to enter into real time market. Here concludes the exhilarating and astounding duo of SBH and NASA Space Apps Challenge. The winner of this 36 hour long Hackathon is team Odinson from RTU.

Odin is the name of the supreme god of art and wisdom, and their team's name portrays their manoeuvre and excellency just right. Here's an overview of the idea these guys worked on :-

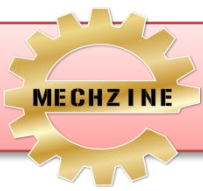
"Low cost automation with energy efficiency and management".

Cheers and huge congratulations to the runner up teams -Team DUMBLEDORE'S ARMY, ED APPLY and SOCIAL ROBOTS.

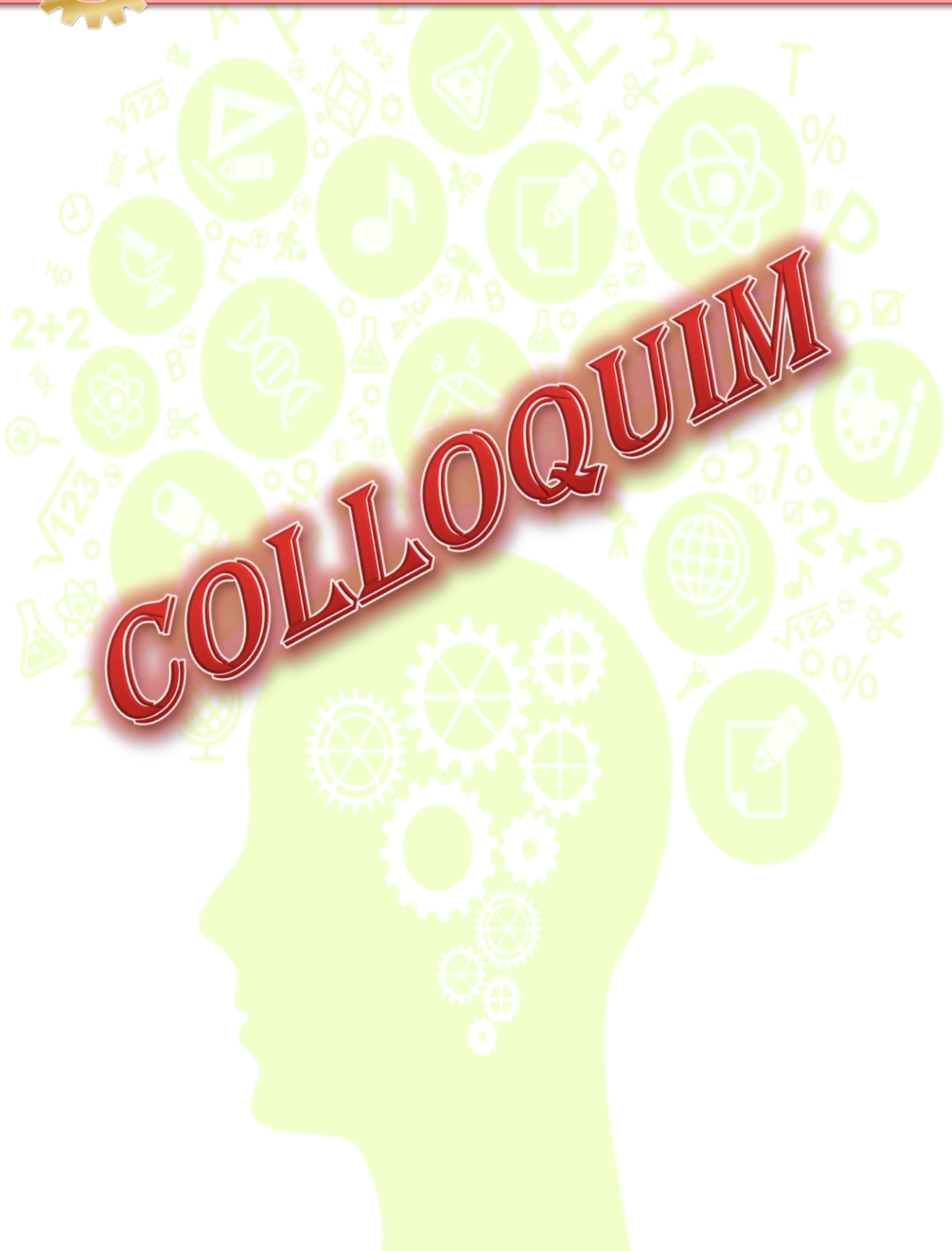
"STEP UP YOUR LIFE" BY BROTHER CHARLIE HOGG



Brother Charlie Hogg, National Coordinator, Brahma Kumaris Australia conducted a session "Step up your life" at Spiritual Research Cell, JECRC, Jaipur. Around forty intellectuals attended the event along with delegates from Germany and Argentina. Third Anniversary of Spiritual Research Cell was also celebrated. After having a visit of Spiritual Cell, he told, "I have visited more than hundred countries of the world but never seen such a wonderful meditation centre in any educational institute."



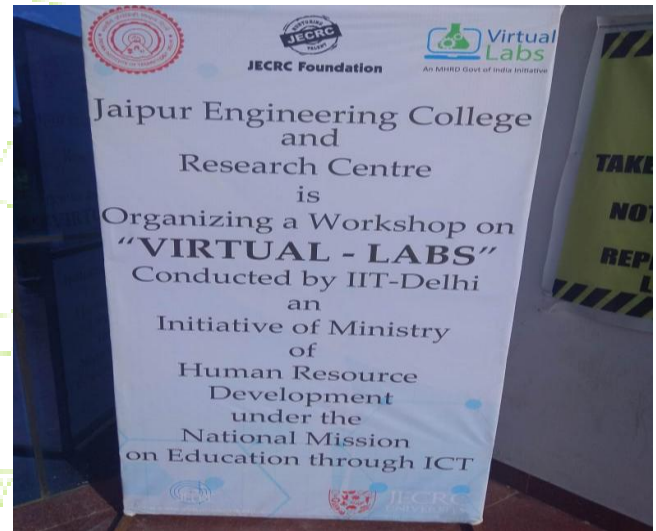
JULY-DEC 2019



COLLOQUIM

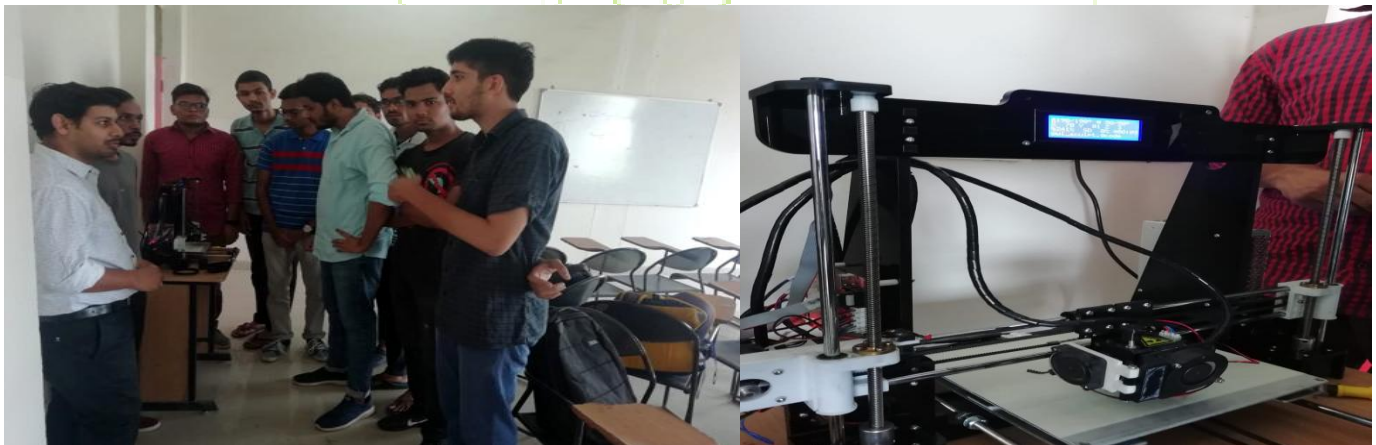
WORKSHOP ON VIRTUAL LABS BY IIT DELHI

Workshop on Virtual Lab was Organized at JECRC by IIT Delhi. It is an Initiative of MHRD under National Mission on Education through ICT. This initiative will provide remote-access to Labs in various disciplines of Science and Engineering. These Virtual Labs would cater to students at the undergraduate level, post graduate level as well as to research scholars.



WORKSHOP ON 3 D PRINTING

A workshop on 3 D printing was organized by Mechanical Deptt for the students of final year on 16 Sept. The lecture was delivered by Mr. Ashish from L3D. It was focused on the Design & applications of 3D printer in various fields.



INDUSTRIAL VISIT-CIPET

Students of Mechanical Department from V sem visited CIPET Jaipur . This Industrial Visit focuses on preparing the students to learn about the day-to-day workings of a particular industry and understand its operational issues. It also helps keep students abreast with the current management practices followed by such organizations and acquire traits that the industry demands of them. So as to provide them with the real insight of working procedure of an esteemed organization to fulfil the curriculum demand. We feel it will be fruitful that the students with academic background have a glimpse of the industry in order to have a better appreciation of practical applications of theory



EXPERT LECTURE BY DR. MANISH SRIVASTAVA



A expert lecture by Dr. Manish Srivastava Mechanical department was given on 18 Sept. on "Placement opportunities & personality development". This lecture was delivered for final year students of Mechanical deptt.



QUEST LECTURE ON FLUID MECH.

A Guest lecture was organized by Mechanical Deptt for the students of V sem on 27 Sept..

This lecture was delivered by Mr. Himanshu on the topic "Fluid Mechanics"



QUEST LECTURE ON MATLAB

A Guest lecture was organized by Mechanical Deptt for the students of III Sem on 04 Sept..

This lecture was delivered by Mr. Bhawani Pratap Singh on various topics of MATLAB



QUEST LECTURE ON CADD

A Guest lecture was organized by Mechanical Deptt for the students of V & III Sem on 06 & 27 Sept. respectively

This lecture was delivered by Mr. Rajeev Bhargava from CADD centre Jaipur.



GAIL INDUSTRIAL VISIT 3RD OCT 2019

An Industrial visit to GAIL(Gas Authorized India Limited) BASE Mansarhampura,Jaipur was organized by dept. of mechanical engineering JECRC foundation for the 2nd year students of Mechanical Dept. The visit was conducted for A batch on 3rd October 2019 in the morning at 9:30am. There are 43 students of batch A with two faculty member visited to GAIL India LTD. Students and Faculty was welcomed by management of institute and a conference meeting was organized in inspirational building at which an informative session for students were arranged by institute which were taken by Mr. G. R.Chouhan (General Manager of institute) and Me. Neeraj Kumar (Dept. Manager) of institute. Mr. Neeraj Kumar introduced institute to students with various slides and ppt. and give information about world longest pipeline from JAMNAGAR and KANDALATO LONI through which Transportation of Gas(LPG) and liquid by pipelines among different states from Gujrat , Rajasthan, Haryana, Delhi and UP and give information about hazardous and safety managemy to prevent from any kind of explosive. The General Manager concluded the session by motivating students by gaining some practical knowledge and take summer internship in GAIL India LTD , Jaipur.





After the session students were visited to various departments of institute, firstly they visited to IPS(Intermediate pumping station).The IPS room was fully computerised and have GPS signals shown on screen give information about situation of pipelines from Gujrat to Delhi. At which shown Gas are transport from Jamnagar and Kaland after they mix and boost up at IPS and transport to samikhali with 354 T/KG and then to Abu road IPS and then to Nasirabad IPS station and then IPS mansarapura Jaipur(Headquarter) then to Loni IPS.At IPS room several controls to control amount of gas transport and various safety Management to prevent from explosion.

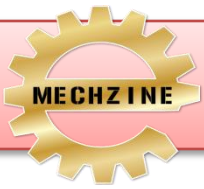
After IPS control room students with Faculty members and site engineer visited to pumps at that site centrifugal pumps are used to transport LPG and for maintenance of pipelines IPF(Intermediate pigging facility) method is used in which pigging is transfer in pipelines which capture data inside the pipelines. After that engineer give information about to protect pipelines from rusting by using of method of electrolysis in which pipelines is used as cathod compared to soil.After that students and faculty member have photo session with General Manager of GAIL India LTD.

Finally, students with faculty left the premises at 1:30pm. It was an informative and an interesting visit for the students of 2nd year. As students understand and get information about transportation, pumping and safety Management knowledge which is always important for mechanical department.

QUEST LECTURE BY ALON TAL AACHEN, GERMANY



A Guest lecture was delivered by Mr. Alon Tal on 9th October 2019 on his project titled "Simulative study to Investigate new & common FGM materials for dental implants". He was an intern during 15/7/19-6/9/19 under Mr. Satyendra Kumar faculty M.E Dept. through IAESTE program.



JULY-DEC 2019

PATHMAKER LEAGUE



PRE-PLACEMENT INTERDEPARTMENTAL TRAINING

A pre-placement drill was organized 19 Aug-3 Sep following the previous mock drill to get through the students with actual placement procedures.

In this the departments were interchanged and Different rounds were held for which faculties of the department were appointed to take the Technical, HR and Group discussions. Students were given grading accordingly and were told about the improvements needed. These kind of activities have helped student in knowing their weak and strong points and how to workout on them.



ALUMNI SESSION FOR PLACEMENT TRAINING ON 22 AUG

Alumni sessions were organized by mechanical department on 24 Aug & 27 Aug for the students eligible for upcoming placement drive of Accenture.

Two sessions were organized in this session and our Alumni were among the motivational speakers. In first session Mr. Dharmesh motivated the students and gave them the tips & techniques to get through the placements.

The second session was given by Mr. Aditya Singh Rajawat. Our Alumni shared their experience of getting placed & the beautiful journey they had in JECRC and told the to believe in yourself and to remember if the situation is not going according to you than pick yourself up, remind yourself why you're amazing, and try again for a new role.



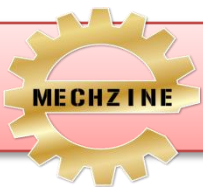
Students were really thankful to Mechanical Dept. and specially to Mr. Kuldeep Sharma & Mr. Akhil Vijay for organising such motivational sessions

SPECIAL LECTURE BY MR. NITIN CHHABRA & MR. DILIP PRAJAPATI

A special pre placement lecture was organized for the students participating in Pinnacle placement.

This lecture was on the topic "Engineering Drawing" to prepare them for the further Drive.





JULY-DEC 2019

JUMP START- PLACEMENTS



JECRC Foundation



J E C R C C E L E B R A T E S



PLACEMENT STORIES

(FIRST TIME IN THE HISTORY OF RAJASTHAN)

as on 26th Sept

397
ACCENTURE

152
TCS

251
CAPEGEMINI



44Days! 17 Companies! 1012 Selections! FIRST ACADEMIC INSTITUTION IN RAJASTHAN!!

JECRC has benchmarked it with a record 1000+ placements in Phase 1. JECRC is the only Institution across the entire state to have made and break such records developing a character for success. Phase 1 of this placement season concluded really well with the news of one of our students, Suraj Kumar grabbing a whopping package of 41 Lacs at Microsoft.

The first phase witnessed an unprecedented start with 17 diversified companies visiting us with a significant increase in the average package offered, wherein 150+ students were offered a package of over 5 LPA. A strong recruiting strategy is crucial to hiring success and it's really admirable that our Training & Placement Department always see placements from notion to completion



JULY-DEC 2019



State Leadership Appreciated JECRC for the Exemplary Placements



#jecrcNaacNbaAccredited

75 DAYS, 72 COMPANIES

1451 PLACEMENTS

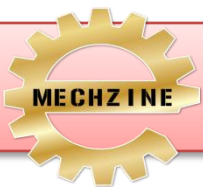
35% Female Placement / Highest Package: 41.00 LPA

AS ON 04TH NOVEMBER 2019

397

251

152

***PLACEMENTS AT A GLANCE***

Accenture	20
TCS-Codevita	1
Pinnacle	16
TCS- NQT	13
THRILOPHILIA	1
BYJU	1
Marvel Infocomm Pvt. Ltd.	6
BABA Automobile	9
Creditas	2
Alibaba- TDI	8

HR CONCLAVE @ VGU JAIPUR

Dr. Manish Shrivastava & Mr. Satyendra along with 4 students from Mechanical Department attended HR Conclave @ VGU Jaipur on 14 Sept.

HR Conclave 2019 was a platform for the conglomeration of thoughts and exchange of experience and knowledge by some of the industry stalwarts about the changing face of HRM in organizations



Alumni Speaks



Dear all JECRCians,

I was a Mechanical aspirant of 2005-2009 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.

After completion of my college degree I got selected in Infosys & HZL Vedanta where I opted for HZL & since then I'm working with HZL. I joined as a trainee engineer & now I'm working as a Deputy Manager all of this was possible because of deepest knowledge & well guidance I receive from my faculties at JECRC

My experience in JECRC was just amazing. I got infinite love & lessons from my teachers here they told "Work Hard" is the only 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.

At the very outset I would like to express my heartiest thanks to JECRC for making me who I'm today.

Wish you all the best.

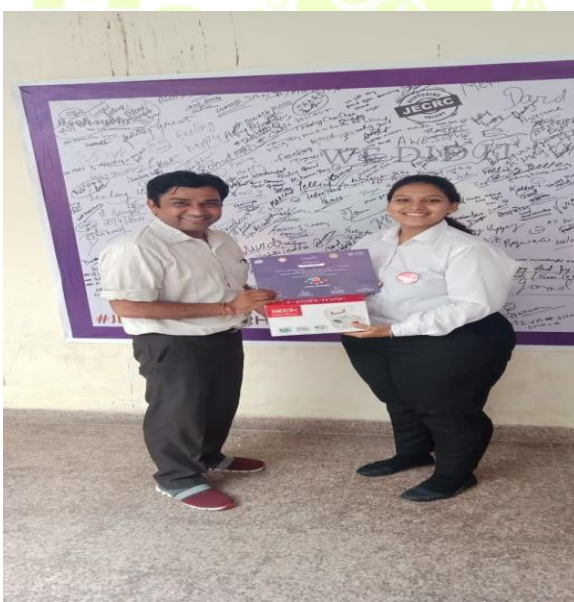
Thanks and regards
Mahipal Singh Kachhava
Ex-Jecrcian

FELICITATION DAY

Aashayein The Life Saviours -BDC 2019

Donating gives a fighting chance,
To those dreaming of one last glance
Saving a life is the main goal,
To keep enduring lives and their soul.
With the anticipation of serving humanity and persisting the deed of saving lives, Aashayein - The Life Saviours, with the help of Rotary Club Jaipur, organized the Blood Donation Camp at JECRC Foundation, JECRC University, Shri Ram ki Nangal village and few more centres on 21st September 2019.





BOL 2.0

The words have the power to turn around the world, if not for all, definitely for one. From the stage of BOL 2.0 organized in JECRC Foundation by Atrangi group, such words were shared. On 24th and 25th September, the prelims round witnessed heart-wrenching performances of over 100 poets. These were selected after the audio round and were judged by eminent poet and writers, Mr Rishi Dixit and Mr Dhanraj Dadhich. 15 top performers who made the halls reverberate with echoes of applause were chosen for the Grand Finale to be conducted on 27th September.

Put a strong voice out there, and the world is bound to listen to you. BOL 2.0, an open mic competition conducted by Atrangi The Dream Follower group of JECRC witnessed huge participation of such voices. The 15 finalists were judged a panel of esteemed guests including Kavi Abdul Gaffar, Mrs Madhuri Muskan Sharma (Kaviyitri) and Mr Suresh Albela (Laughter Challenge Winner). To grace the event and inspire the trend of art and culture in the institution, Shri Amit Agrawal and Shri Arpit Agrawal (Director JECRC) were present along with other dignitaries Shri OP Jain, Shri Pramod Kumar Tiwari, Dr Vinay Chandna (Principal JECRC) and Mrs Rekha Mithal (Faculty Coordinator Atrangi). The participants were also encouraged by the phenomenal presence of RJ Shonali who studied the event with sparkling energy. In a tough war of words and expressions, Mr Hemant Kumawat was declared the winner and Mr Kartik Chandna stood at the runner up position. It's the poets and writers who awaken the masses and call for action, and it is us who need to listen.





JOY OF GIVING WEEK BY "ZARURAT"

"Thousands of candles can be lighted from a single candle, and the life of the candle will not be shortened. Happiness never decreases by being shared."

Substantiating the quotation of lord buddha, Team Zarurat, an incredible social enterprise of JECRC Foundation working overwhelmingly for sprinkling their motto of spreading smiles and embracing innocence conducted 'Joy of Giving Week'.

Assisting, Amusing and Appreciating the presence and potential of innocent children was done and dusted with full vehemence and exuberance.

JECRC all heartedly congratulates and confers its reverence and contentment for a great success of such an amazing event by team ZARURAT.





ROAD SHOW BY TEAM SUHASINI

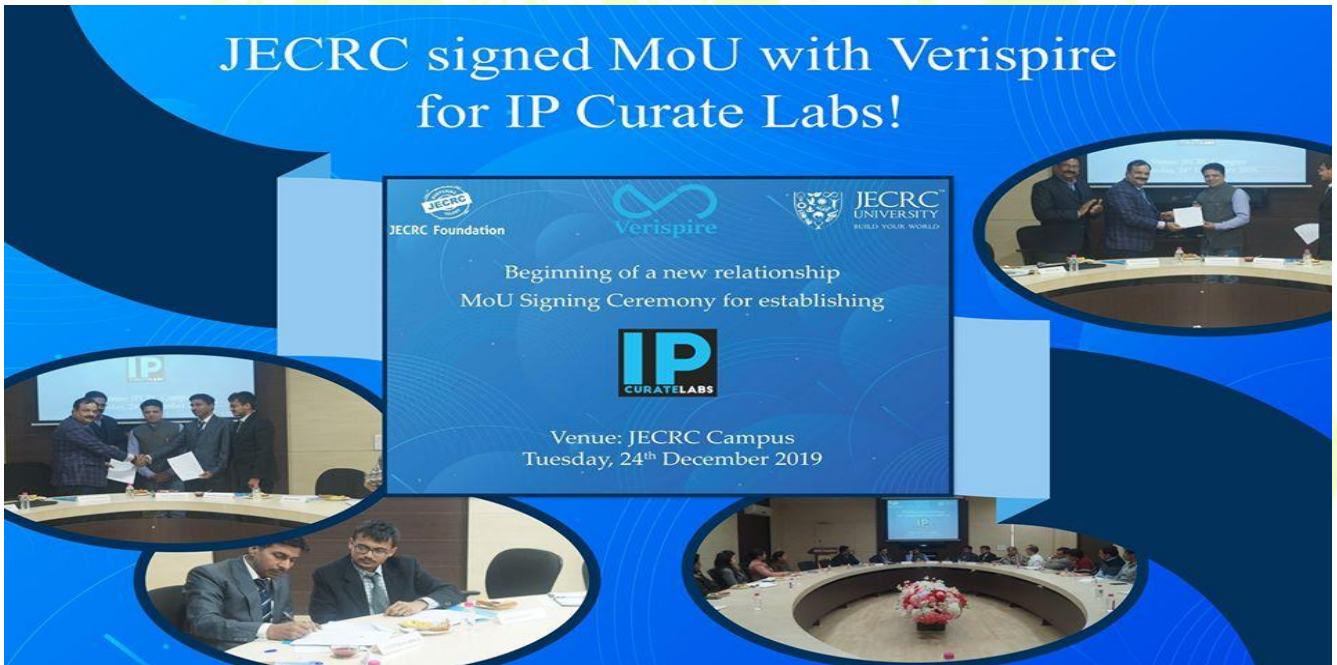


Suhasini group of JECRC Foundation conducted Roadshow 2019 based on the theme "Girlforce: Unscripted and Unstoppable". On 13th October, at Albert Hall Museum, Mayor Vishnu Lata and Mr Dhara Singh (ADM South Jaipur) were the chief guests for the event.

A crowd of thousands was addressed via the show and had many performances explaining the need of this hour for women empowerment. Lyrical dance act, poetries, singing, and a special act from the students of Govt Seth Anandi Lal Poddar Deaf and Dumb Senior Secondary School narrated the stories of every suppressed female voice in the best manner. The Nukkad Natak put together by the team with great efforts gained overwhelming applause from the audience. The main aim of roadshow turned successful with the participation of the crowd during the entire course of the event. The conclusion happened on a musical note with a band performance sending the message of gender equality.

RJ Geetanjali hosted the Roadshow in the best possible manner. Here are some glimpses from the event. Shri Arpit Agrawal (Director JECRC), Shri OP Jain and Shri ML Sharma constantly supported the team to achieve newer heights.

MoU WITH IP CURATE LABS @ JECRC



JECRC Foundation signed a MoU with Verispire Tech, Noida, to establish "IP Curate Labs"

Adding to the long list of prestigious associations, here is yet another one which will mark the set up of IP Curate Labs in both JECRC College and JECRC University. The MoU signing ceremony took place at JECRC College under the auspicious presence of Shri Arpit Agrawal, Director JECRC, and dignitaries and was witnessed by the core faculty group along with Principal of JECRC College, Dr. Vinay Chandna and Registrar of JECRC University, Shri Sohan Agrawal. This was coordinated by Mr Manish Jain, Mrs Shruti Kalra, and Mr Mukesh Agarwal.

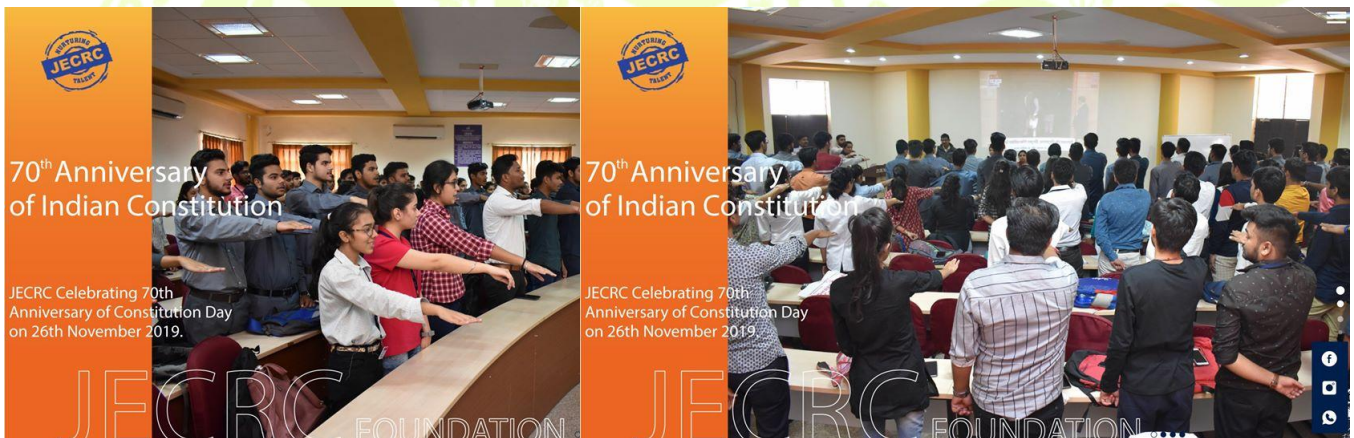
This will help bringing in evolutionary changes for students. The establishment of these labs will simplify the process of filing patents for both students and faculty members. Various workshops will promote the ecosystem of copyrights and patents, helping JECRCians go a long way, without having to do it the hard way!!

2 DAY WORKSHOP ON AUTONOMOUS DRIVING@ JECRC



2-Day Workshop by international experts on Autonomous Driving at JECRC Foundation! The world is advancing in every sphere, and JECRC walks with it hand in hand. Mr Ritukar Vijay (CS 2007 batch alumnus) along with Mr Hardik Sharma (ME 2010 batch alumnus) conducted a workshop on Autonomous Driving, AI and robotics space for 2 days, i.e. 13th and 14th December 2019. On day one, a Faculty Development Programme was organized and witnessed the participation of around 40 faculties. On day 2, an enormous number of enthusiastic students gained knowledge from skilled professionals. Mr Ritukar Vijay currently worked for Aptiv Germany and headed the Tech & Product Strategy at Hitech Robotics. He also has 12 patents and 5 international papers credited to his name. Mr Hardik Sharma worked as Sr. Mechanical Engineer at Grey Orange Pvt. Ltd. and has developed and patented a modular robotic system for surgical procedures. Coming together, these two JECRC gems along with 2 IIT alumni have started Ottonomy IO. With the aim to make students friendly with AI environment, and develop a focus on Autonomous Vehicle Research platform, JECRC welcomed them for an interactive workshop. We are grateful to Mr Mukesh Agarwal, Mrs Shruti Kalra, and Mr Manish Jain for bringing such an opportunity for students on-campus.

70TH CONSTITUTION DAY



The prime aim of education is to create citizens that contribute in the progress of the nation. On 26th November, the 70th Constitution Day of India, JECRC promoted this aim and extended its effect on the students. Imparting knowledge about the world's largest most well-written constitution and the understanding of the principles of Dr. BR Ambedkar made JECRCians aware about their rights and duties. Faculty members and students pledged to be law abiding citizens of society and promote the principles of equality, fraternity and justice among all Indians. JECRC wishes to uphold the ideals of the nation and build a strong generation for tomorrow, and thus continues to impart every value to the students.



JUKEBOX

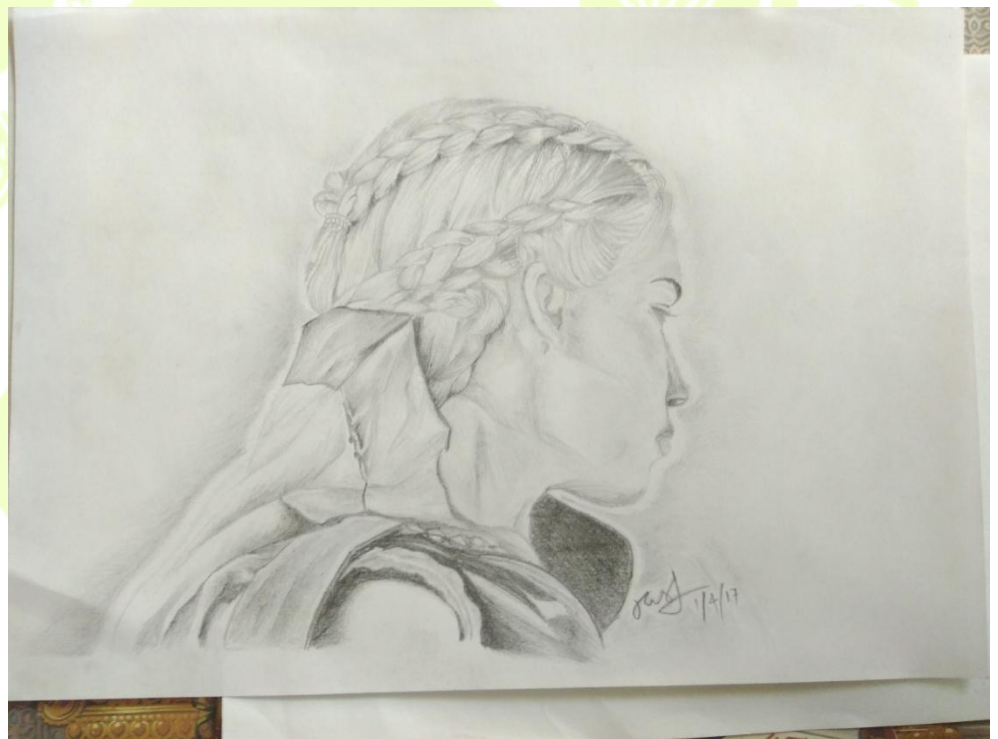


Artist Column

*By
Balkishan
VIA M.E*



Artist Column
By
Yash Jaitawat
VIB M.E



ICONIC PERSONALITIES***Anand Mahindra***

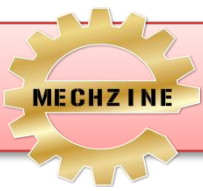
"Nobody understands how the world will change. The only way you can plan for the future is to have scenarios. You have to have the courage to take a leap of faith on one of them"

Anand Gopal Mahindra (born 1 May 1955) is an Indian billionaire businessman, and the chairman of Mahindra Group, a Mumbai-based business conglomerate. The group operates in aerospace, agribusiness, aftermarket, automotive, components, construction equipment, defence, energy, farm equipment, finance and insurance, industrial equipment, information technology, leisure and hospitality, logistics, real estate and retail.

As of January 2020, his net worth is estimated to be \$1.6 billion. He is an alumnus of Harvard University and Harvard Business School. In 1996, he established Nanhi Kali, a non-government organisation that supports education for underprivileged girls in India.

He is included by Fortune Magazine among the 'World's 50 Greatest Leaders' and was in the magazine's 2011 listing of Asia's 25 most powerful business people. Anand was noted by Forbes (India) as their 'Entrepreneur of the Year' for 2013. In real life Mahindra is an active participant in co-curricular activities. A tennis buff he has now taken up sailing. He enjoys world cinema, reading and listening to the Blues. In 2011 he helped to set up an annual Mahindra Blues Festival in Mumbai. A regular on Twitter he frequently shares his business ideas and views, through writing in some of India's leading business magazines.

His ambitions are drawn from Jack Welch's dictum at General Electric i.e. to be either number one or number two in whatever business he is in. Under his stewardship M&M has grown into one of the nation's leading companies, employing more than 117,000 people with its presence in over 100 countries. Yet as it moves into the 21st century, it gives assurance to rise and only get better with the passage of time.



From the Diary.....

If you want a thing bad enough
To go out and fight for it,
Work day and night for it,

Give up your time and your peace and
your sleep for it
If only desire of it
Makes you quite mad enough
Never to tire of it,

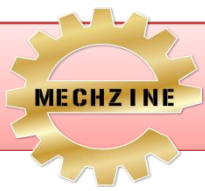
Makes you hold all other things tawdry
and cheap for it
If life seems all empty and useless without it
And all that you scheme and you dream is about it,
If gladly you'll sweat for it,
Fret for it, Plan for it,

Lose all your terror of for it,
If you'll simply go after that thing that you want.
With all your capacity,
Strength and sagacity,

Faith, hope and confidence, stern pertinacity,
If neither cold poverty, famished and gaunt,
Nor sickness nor pain
Of body or brain

Can turn you away from the thing that you want,
If dogged and grim you besiege and beset it,
You'll get it!

Berton Braley



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 Satyendra Kumar
Assistant Professor



Mr Rajendra Kumar Gupta
Assistant Professor



Mr Akhil Vijay
Assistant Professor



Mr Dayal Singh Rathore
Assistant Professor



Mr Nitin Chhabra
Assistant Professor



Mr Aashish Nagpal
Assistant Professor



Mr Dilip Kumar Prajapati
Assistant Professor



Mr Ravi Yadav
Assistant Professor



Mrs Palak Jindal
Assistant Professor



Mr Yogesh Dubey
Assistant Professor



Mrs Priti Pramod Bodkhe
Assistant Professor



Mr Jitendra Kumar Gupta
Assistant Professor



Mr Hukum Chand Nagar
Assistant Professor



Mr Tej Bahadur Singh
Assistant Professor



Mr Abhishek Kumar
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 Narendra Singh
Lab Instructor



JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

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