



E-MECHZINE



SECOND ISSUE

JAN-JUNE 2017



PROMULGATION



COLLOQUIUM



PATHMAKER LEAGUE



TECHNOCRATZ



JUKE BOX



"Success comes to those who work hard and stays with those, who don't rest on the laurels of the past."

We are delighted 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 a 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!

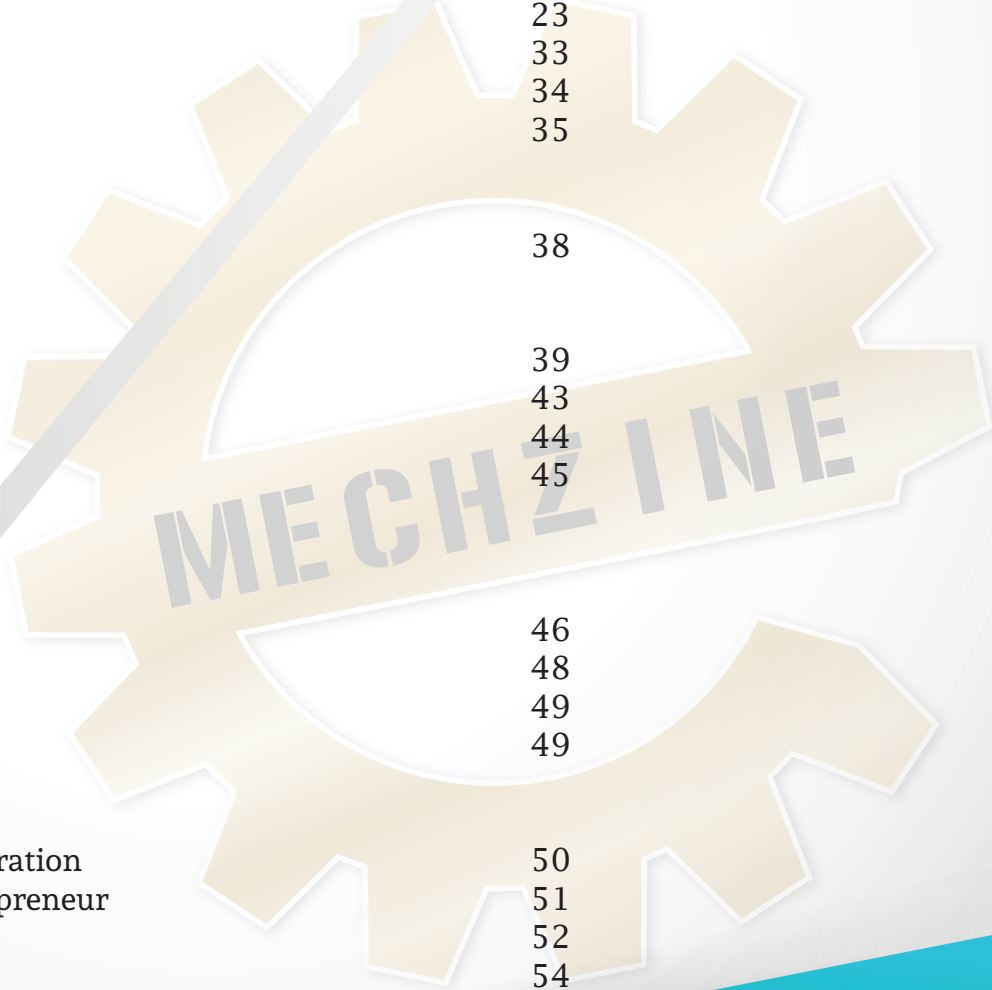
We are very thankful to all Faculties & Students for their contributions in making this E-MECHZINE a grand success.

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

---The Editorial Board

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Sh. Arpit Agarwal
Director, JECRC

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. 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!



Sh. V. K. Chandana
Principal, JECRC

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!



Dr M. P. Singh
Head of Department,
Mechanical Engineering, JECRC

If innovation and novel ideas are key to bright future then we can surely remain assured of our place under the pedagogic sun. We put forward a distinctive blend of offerings in the areas of engineering & technology in the form of different activities throughout the year. The first issue of "E-MECHZINE" has given us a complete insight of all these activities and I feel really proud of the success of our first issue which was the result of remarkable efforts of our dedicated Students & Faculties.

We at JECRC Mechanical Engineering Department focus on overall development of our students and to prepare them to be successful in this new era of technological growth. Mechanical Engineering is an essence of today's world. We are committed to provide not only technical education to our students but also the leadership qualities through which they can create employment for 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.

VISION & MISSION OF COLLEGE

VISION :

To become a renowned center of outcome based learning, and worktowards academic, professional, cultural and social enrichmentof the lives of individuals and communities.

MISSION:

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

VISION & MISSION OF DEPARTMENT

VISION :

The Mechanical Engineering Department strives to be recognized globally for excellent technical knowledge and to produce quality human resource, who can manage the advance technologies and contribute to society through entrepreneurship and leadership.

MISSION:

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

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 Outcomes of Department

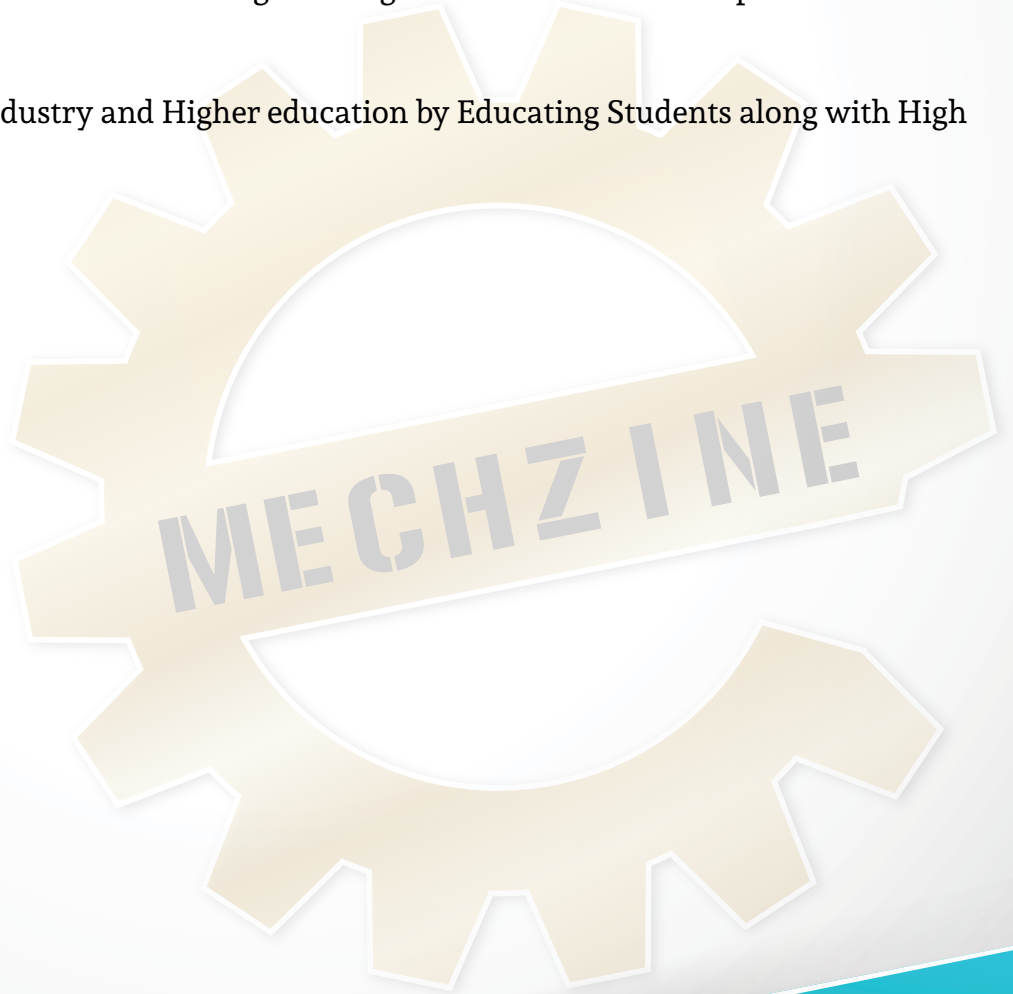
To provide students with the fundamentals of Engineering Sciences with more emphasis in Mechanical Engineering by way of analyzing and exploiting engineering challenges.

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, multi-disciplinary 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.



Projects of Mechanical Department

The innovative atmosphere of JECRC is always give enthusiasm to the students to innovate different new things to ease the life of people with efficiently. As we progress different changes are there in the life of people on earth, for which an engineer should have a solution, with this thinking students of mechanical dept. innovate the things and give them a shape form imaginations to real life. In past we innovate a lot of things which may somewhere improve the life of people from poor to rich. In last year also all students work with high potential and hard work, the outcome is splendid.

HUB LESS BIKE

As the new invention has been seen in automobile industry in recent time there are needs to reinvent the old concepts, with this thought our students Dhanraj, Hitesh Chouhan, Sanwarlal Gurjar, Saransh Hari, Pawan Kumar Sharma, Rakshit Trivedi, Devesh Chundawat, Shubham Vaishnav of Mechanical Department design and manufacture a hubless wheel bike which have no hub or technically its hub size is as wheel size. This Hub less rim concept eliminates the hub and the connecting spokes from the wheel thus making a wheel lighter in weight. The hub less wheel was created by using two circular bearings inserted inside of each other. The inner bearing provides steering, support, and attachment to the frame. The outer bearing consists of a tire with a brake ring also fixed in. Some of the advantages seen by this design, are more accurate steering, less weight and enhance braking.



Projects of Mechanical Department

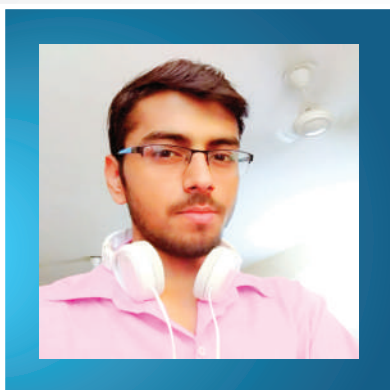
LPG REFRIGERATION

Today the major challenge in front of us is pollution which can cause many effects on nature and in our healthy life and increases the probability of cancer and death causing diseases. Therefore an engineer should always think to reduce pollution and innovate different ways to reduce it. This concept was in the thought of students RISHABH GUPTA, RAMNIK KAUL, RAHUL MANGAL and RIFATULLAH KHAN and began their experiment on LPG REFRIGERATION. The result of an experimental study carried out to determine the performance of domestic refrigerator when a liquefied petroleum gas (LPG) which is locally available. The LPG is cheaper and possesses an environmental friendly nature with no Ozone Depletion Potential (ODP) and no Global Warming Potential (GWP). It is used in world for cooking purposes. The refrigerator used in the present study is designed to work on LPG. The performance parameters investigated is the refrigeration effect in certain time. The refrigerator worked efficiently when LPG was used as a refrigerant instead of R134a. The evaporator temperature reached 50 degree Celcius with an ambient temperature of 35 degree celcius.



This system is cheaper at initial as well as running cost. It does not require external energy sources to run the system and no moving part in the system. So maintenance cost is also very low. This system is most suitable for hotel, industries, refinery, chemical industries where consumption of LPG is very high.

Semester Toppers



Prashant Bhaskar (81.9%)
III SEM



Krishnakant Gupta (77.3%)
III SEM (II Shift)



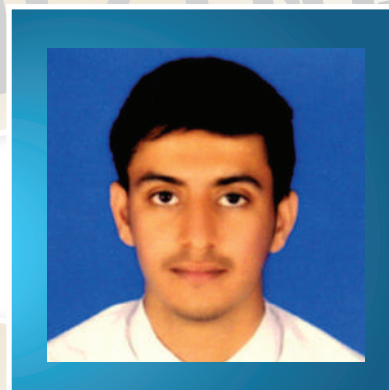
Yash Kumar Gupta (80.2%)
V SEM



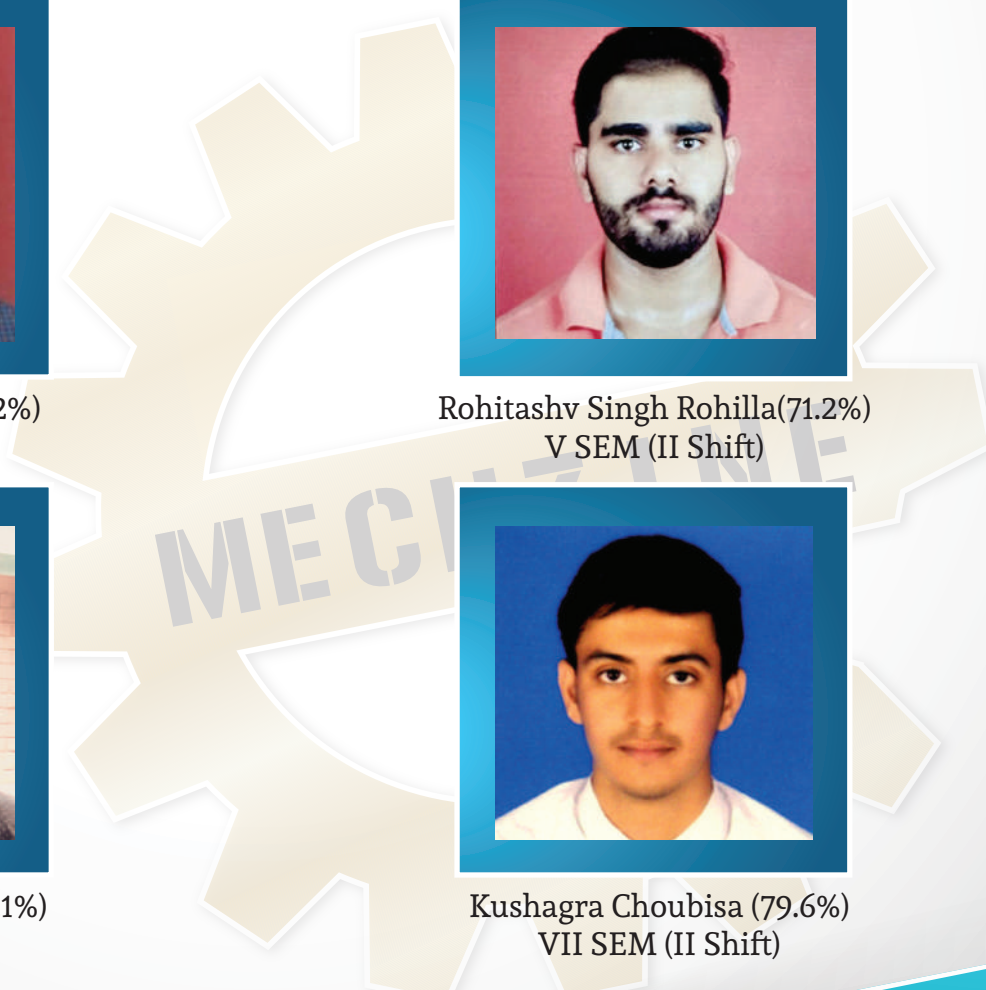
Rohitashv Singh Rohilla (71.2%)
V SEM (II Shift)



Harshvardhan Arya (78.1%)
VII SEM



Kushagra Choubisa (79.6%)
VII SEM (II Shift)



Students' Achievement

A group of 24 students was in MEGA ATV CHAMPIONSHIP 2017 at Ahmednagar, Maharashtra on March 13th-16th, 2017. The event is organized by Autosports, India



Robo War

- ★ Mr. Harshul Khandelwal (III Year) with his group participated in ROBOWAR at LNMIT during 18th to 20th Jan, 2017 and won 2nd prize.



Vibgyor

- ★ Mr. Gourav Lodha (III Year) with his group participated in RC Car event at Baba Farid College of Engineering & Technology, Bhatinda during 27th to 30th Jan 2017.



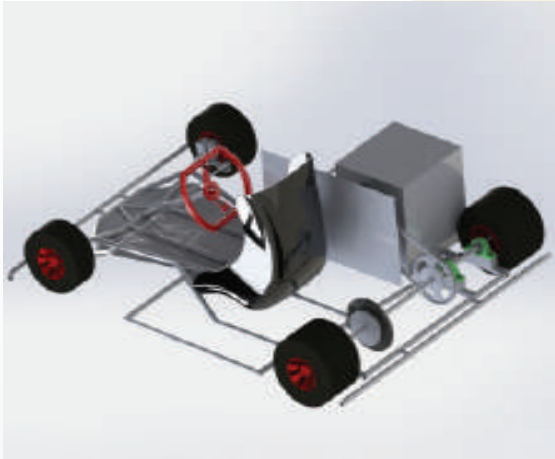
RC Car Event

- ★ Mr. Arpit Natani (III Year) and Arpit Agarwal (III Year) participated in RC car competition at RTU, Kota during 15th -18th February 2017 and won 2nd prize.



Elite Carting

- ★ Moonrider Club of JECRC participated in a Go Cart event “Elite Carting” at Bhopal during 14th to 20th February 2017.



ANSYS Training Program

- ★ A group of 50 students along with 05 faculty members attended ANSYS training programme held at JECRC during 05-07 March, 2017.



RC Car Event

- ★ A team of 5 students participated in an RC Car event at MIT and DY Patil, Pune during 6th to 11th February 2017.



SAE Convention (North India)

A group of 83 students along with 3 faculty members participated in SAE Convention held at Manipal University on 28th Jan, 2017. Mr. Girish Khandelwal won 3rd prize in Quiz compition.



Industrial Visit

A group of 30 students from 3rd year went for Industrial Visit at Manu Yantralaya, Jaipur on 15th Feb, 2017 along with 2 Faculty members.



Debate

- ★ Mr. Shubhank Sharma (III Year) and Shubham Khandelwal (III Year) participated in a Debate competition at SKIT, Jaipur on 15th February 2017.



Sports

- ★ JECRC Badminton team won first prize in VANQUISH held during 24th to 26th March'17 at Global Technical Campus.



- ★ Mr. Varun Agarwal, Mr. Rahul Gupta, Mr. Vishal Bansal & Mr. Satyam Jain won 1st prize in RC Car at BABA Farid Workshop, Jaipur on 27-30 Jan 2017.
- ★ Mr. Aditya Yadav, Mr. Gaurav Lodha, Mr. Harshul Khandelwal, Mr. Bhupendra Suman won 2nd prize in Robo War at BABA Farid Workshop, Jaipur on 27-30 Jan 2017.
- ★ Mr. Deepesh Mittal & Mr. Arpit Agarwal won 1st prize & 4th position in Thar, RC Car Event at RTU, Kota on 6-11 Feb 2017.
- ★ Mr. Gaurav Lodha & Group won 1st prize in Robo War at MNIT, Jaipur.

Placement for 2016-17 Batch

<u>S.NO</u>	<u>NAME OF THE COMPANY</u>	<u>NO. OF STUDENTS PLACED</u>
1	ACCENTURE	17
2	TATA TECHNOLOGIES	03
3	BULLS EYE	05
4	PINNACLE INFOTECH	42
5	CAPITAL VIA	01
6	FEV INDIA	06
7	FAC	08
8	TECHFLEETERS	02
9	VOYLLA	01
10	APPEAL	02
11	JUST DIAL	04
12	AAYAT TECHSOFT	02
13	LANTERN INFOSYSTEM	01
14	MINDIT	20

Faculty Achievement

By- *Er. Vipin Goyal*
Asst Prof. Mechanical



A Two Week QIP Sponsored Short Term Course on "Quality Management : Issue, Tools and Techniques" was organized by the Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee from 29 May 2017 to 09 June 2017. 25 Faculty members across the different states of India attended the course. It was focused on need, importance, and some philosophies of quality.

Prof. Pradeep Kumar, IIT Roorkee one of the renowned faculty in India, talked about Issues in quality, Principles of Total Quality Management, Total Productivity Management, ISO Quality system, Quality awards and Indian economy (opportunities and Threats).

Dr Akshay Dwivedi discussed the Quality Function Deployment (QFD) and the implementation of QFD in health care industries, He also talked about Process capability, Modern QC tools and Quality circles.

Mr. Mukesh Goyal, Plant head Hero Moto Corp, Haridwar told about the Role of Quality in Business development and automobile sector. Dr. A. K. Raj Senior Advisor, Quality council of India, discussed Zero defect, Zero Effect and told how it is helpful to increase the productivity of industries.

Dr. Balbir Talwar, General Manager, Bharat Heavy Electrical Ltd. (BHEL) Haridwar shared his experience about the quality improvement initiatives in BHEL. Dr Ravi Vaikuntachar, Senior Manager Honeywell discussed about Quality practices in industry.

Prof. Inderdeep Singh, IIT Roorkee discussed the issues in technical education system in India and role of quality in academics and research. He also talked about the role of National Board of Accreditation (NBA) in Quality education system.

Hero Moto Corp gave us wonderful opportunity to visit Haridwar plant. Where we saw assembly of Splendour plus. We also saw automated paint shop, welding shop, Research and Development cell, Engine assembly and testing labs. The cycle time of the plant was around 30 seconds.

Republic Day Celebration



India, the largest democracy of the world, got independence on 15th August 1947. That's why on 15th of August every year, we celebrate our Independence Day. However, India became a Republic on 26th of January 1950. So we call this day as Republic Day.

Republic means a state where people enjoy the supreme power and choose their own representatives. They got this tremendous constitutional power as India had got its new Constitution on this day. Earlier India had no constitution. The country had no President. On the same date i.e. on 26th Jan 1950, Dr Rajendra Prasad became First President of Republic India.

On every 26th January, people from across the country celebrate Republic Day with great enthusiasm. Republic Day is celebrated in every village, town, city and capital of each state as well as in JECRC. In JECRC, the Celebration takes place at front lawn.

In our college, Republic Day is celebrated with great enthusiasm, huge crowd feeling patriotic about it. The student from various branches performed at the event to show their love, towards the nation. A student performed self written poetry for the country, which was followed by a patriotic song and dance. Our principal Mr. V.K. Chandna motivated the student with his patriotic speech. The programme was concluded by a violin performance and National Anthem marked the end of it.

ATHLON 2K17

The JECRC SPORTS CLUB organizes a yearly inter-branch sports meet "ATHLON". Sports helps an individual to build team spirit, leadership qualities, discipline. Sports also play an important role in the personality development of an individual. Various sports activities such as volleyball, basketball, cricket, football, chess, kabaddi, table tennis, badminton etc. are organized by club. Fun events are also organized for the students as well as the faculty.



The huge number of participation is observed from the boys as well as the girls and the level of enthusiasm in the participants is very high. ATHLON is the most awaited event of the year. Students enjoy this at their extreme level. Being a part of RENAISSANCE, Athlon is a great success with the motivation of Shri Arpit Agarwal (director), Shri V.K.Chandna (principal) and Shri Rajesh Sharma (sports officer) who also guided during the proceedings.



AU Marathon



The mesmerizing land of royal Rajasthan, where folk and culture resonates each other's being, where vibrant colours blend to create the moods and royalty stands tall at the epicentre of this wonderful land. As a never-ending effort to complement the everlasting effect of the rich Rajasthani tradition, SANSKRITI YUVA SANSTHA along with WORLD TRADE PARK feel privilege to enter into its 8th edition for 'AU JAIPUR MARATHON' carnival.

Marathon running is one of the most arduous tests of human will and endurance for a runner and organizing and staging a marathon for its organizers. Over the years, the AU Jaipur Marathon has managed to embrace love and care while working towards the welfare of the 'pink city' and the royal land of Rajasthan. It aims to strike a balance between the rich ethnic roots of this royal land and the transcending architecture and modern outlook of the city in the race of becoming a world-class city.

Thousands of performers accompany colourfully decorated floats, and dance along the streets of Jaipur. Celebrating the multicultural diversity of Rajasthan bands, sports clubs, schools, scouts, guides and other community groups to line the route, man stations and contribute to a carnival



Our college dignities, faculties and lot of students participated in this mega event and were witnessed the super show which was done by great peoples of Jaipur.

RENAISSANCE 17

The National level techno Cultural Fest of JECRC, Renaissance has made a niche for itself among all colleges in the region. It's the second largest fest of Rajasthan. It provides a versatile platform for all students to learn and explore the various dimensions of their personality and to showcase their talent. Renaissance also provides unmatched learning and exposure to the organizing team of students in the form of team work, pressure handling and product sale and promotion.



JECRC RENAISSANCE 17 was inaugurated by the Senior Advisor of JECRC, Mr. P.K Tiwari and Principal of JECRC, Mr. V.K. Chandna. It was an interesting affair with the commencement of all Technical and Cultural events. This year students got a chance to meet environmentalist and social activist, Sh. Chandi Prasad Bhatt and Sh. Rajendra Singh aka well known Waterman of India.



Mechanical Engineering Department organized various technical events under Renaissance'17 to bring out various hidden talents in our budding engineers. The glimpses of which will be seen in pages ahead.

MECHANICAL ENGINEERING DEPARTMENT

1. EMBRYO

This event aimed to tap the minds of budding mechanical engineers. The event was like a paper presentation in the symposium which helped students to think and come up with innovative ideas, also enhancing the on stage skills of the students. The topic given to students for the event was “Recent Trends in Mechanical Engineering”. At first stage, abstracts were submitted by students and were scrutinized by Faculty Coordinators. The papers were judged on the basis of their innovation, in depth knowledge of the field and presentation skills.



Faculty Coordinators:

1. Dr. Manish Shrivastava
2. Mr. Tajendra Singh

Student Coordinators:

1. Mr. Shahjade Alam
2. Mr. Dhruv Laddha
3. Mr. Devendra
4. Mr. Shahrukh Khan

2. REVERSE ENGINEERING

The event was based on deep knowledge of Automobile Engineering about various components involved in the assembly of an Automobile Engine. This event was divided into two stages. In the first stage, each team (Two Members) has to clear an objective type test paper, only the qualified teams were allowed to enter in the second stage. In the second stage each team was provided with an Automobile Engine which they have to disassemble and then again assemble it back to the original state.



Faculty Coordinators:

1. Mr. Shrikant Bansal
2. Mr. Aashish Nagpal

Student Coordinators:

1. Mr. Mohit P. Saini
2. Mr. Raja Janmejay
3. Mr. Abhijeet Sharma
4. Mr. Vijaykant gaur
5. Mr. Arpit Jain

3. CADD MANIA

This event was organized to examine the soft skills of students. In this event, participants were challenged to design a 3-D object on AutoCAD. The event was conducted in two parts: Quiz and 2D-drawing. The student who qualifies the 1st stage was moved to the second stage. Contestants were given a 3D drawing and its all three views (F.V., T.V., and S.V.) were drawn with dimensions.



Faculty Coordinators:

1. Mr. Lalit Kumar Sharma
2. Mr. Jaydev Verma

Student Coordinators:

1. Mr. Vivek Sharma
2. Mr. Shubham Rathi
3. Mr. Dilip Jajoo
4. Mr. Himanshu Guneshwar

4. MIGHTY THROTTLE

This event was organized for RC Car racers. The participants were instructed to build a Remote Controlled IC engine powered car to traverse a race track in the minimum possible time. The time track was composed of several turns with increasing difficulty levels. The problem statement was to “Build a Remote Controlled IC engine powered car to traverse a race track in the minimum possible time. The teams with the top best time to lap this track qualify for racing.



Faculty Coordinators:

1. Mr. Kuldeep Sharma
2. Mr. Akhil Vijay
3. Mr. Satyendra Kumar

Student Coordinators:

1. Mr. Mohit Pareek
2. Mr. Rahul Gupta
3. Mr. Govind Vyas
4. Mr. Satyam Jain
5. Mr. Gagan Jindal

5. FORK LIFTER

Fork lifter was about building a crane using wooden material suitable enough to place the given weights on a platform using only hydraulic mechanism.

In First round, points were given to each crane on the basis of maximum weight it can lift for 5 sec. Points of this round were added to the final score. In second round teams were given a task to perform, the task was of picking up blocks and placing them on the specified location. The qualified teams reach the final and in final round selected teams will have to build a building with blocks in given time. Points were given on basis of height and stability of the building.



Faculty Coordinators:

1. Mr. Abhishek Kumar
2. Mr. Satyaprakash Saini

Student Coordinators:

1. Mr. Girish Khandelwal
2. Mr. Raushan Kumar
3. Mr. Om Prakash Yadav
4. Mr. Prince Kumar
5. Mr. Shubham Wadhwa
6. Mr. Vikash Jain

6. PROPELLO

Propello was an event of making propulsion device with the use of compressed air. Material for construction was provided on the spot. Participants constructed the device within time limits. Propulsion rocket were powered with the help of pressurized water. Judging was done on the basis of time of flight, distance of path covered and trajectory of the device.



Faculty Coordinators:

1. Mr. Ravi Yadav
2. Mr. Nitin Chhabra

Student Coordinators:

1. Mr. Dinesh Kumar Jain
2. Mr. Vishvendra kumar
3. Mr. Nirankar Singh

7. R-MECH OLYMPIAD

A real test of engineering aptitude for the Mechanical Engineering students. The event was for JECRC students only. In first round, 50 Basic Mechanical Engineering questions were answered in 60 minutes. Students who qualified first round were eligible for the second round.



Faculty Coordinators:

1. Mr. Vipin Goyal
2. Mr. Sandeep Yadav
3. Ms. Palak Jindal
4. Mr. Hukumchand Nagar

Student Coordinators:

1. Mr. Linkon Gori
2. Mr. Yogesh Yadav
3. Mr. Kuldeep Soni

8. BRAIN QUEST

A test of knowledge, exclusively in Mechanical Engineering discipline as a competition between Individuals and Teams as a form of awareness. It was comprised of different round question answer round, Dumb Charades round and last was the Buzzer round.



Faculty Coordinators:

1. Mr. Vipin Goyal
2. Mr. Sandeep Yadav
3. Ms. Palak Jindal
4. Mr. Hukumchand Nagar

Student Coordinators:

1. Mr. Jayesh Garg
2. Mr. Kanaram
3. Mr. Himanshu Rai
4. Mr. Pratyush
5. Mr. Manish Sain

9. IV SHOW

The main motto was to read the speed of Engineers mind. In this regard, this event gave the platform to the students to show their hidden talent with engineering innovative videos collection and to motivate the rest of the students to think to be innovative. The topic given for this was “Latest Engineering Innovative Videos”.



Faculty Coordinators

1. Dr. Bhuvnesh Bharadwaj
2. Ms. Priti Bodkhe
3. Mr. Rajendra Kumar Gupta

Student Coordinators

1. Mr. Vivek Soni
2. Mr. Shubham Khandelwal
3. Mr. Parul Yadav
4. Mr. Suraj Prajapati
5. Mr. Prince Sharma

Sh. Anil Swarup @ JECRC

11th February 2017 has become a landmark day for the JECRC foundation as our esteemed guest respected Mr. Anil Swarup, Secretary, Department of School Education and Literacy, marked his gracious presence in the college campus. He interacted with curious students of JECRC on the subject of leadership in life.



The session was held in the college auditorium with the presence of other respected guests from the foundation.

Mr. Swarup interacted with students on the important subject of leadership in life and enlightened them with numerous other life changing experiences. He poured all the experience he has got in his stint as an IAS officer for students so that they could learn some vital qualities like hard work and leadership which will help students as they go ahead for new ventures.

The session was highly interactive in its very spirit as there was a question and answer session proceeding the highly intriguing session of knowledge transfer.



The students of JECRC were as interactive as always and grabbed the opportunity offered to them with both the hands. They were rejuvenated and were full of enthusiasm and positivity as they went out after the successful culmination of the session. In a nutshell, it was an honour for the foundation and a one in lifetime opportunity for the students to host such a distinguished guest.

TEDx at JECRC

JECRC is known for its new ventures and uniqueness among other colleges because of the attempts it makes to provide exposure to students to what is best available for them. Adding another link in the chain, on 25th March, 2017, JECRC became the first engineering college (affiliated to RTU) to organize TEDx, an International event themed "DISCOVERING SOCIETY". The aim was to bring the IDEAS WORTH SPREADING to the handpicked intellectual students of JECRC who would take inspirations from those ideas and change the world for good.



Uniqueness of TEDxJECRC-

- TEDxJECRC was the first TEDx to be organised by an RTU affiliated college.
- It was the first TEDx organised by an institute in Rajasthan to have 10 speakers in its first edition.
- With the theme as DISCOVERING SOCIETY, noteworthy speakers from vivid fields society shared their insights and helped students unravelling the woven thread of society.
- Under an initiative to nurture unacknowledged yet powerful feminine energy, more than 50% of the speakers in TEDx JECRC were women.

Speakers

The elite group of speakers included:

- Mr. RNK Bamezai (Scientist and Padma Shree)
- Ms. Reena Puri (Chief editor Amar Chitra Katha)
- Ms. Ajaita Shah (Social Entrepreneur)
- Ms. Anuja Kapur (Criminal Psychologist)
- Mr. Nitin Mirani (International Standup comedian)
- Ms. Nina Nayak (Child right activist. AAP political figure)
- Ms. Ritu (Acid attack survivor)
- Ms. Nandita Venkatesan (TB survivor)
- Mr. Paresh Gupta (Mentor, entrepreneur)
- Ms. Manisha Gulyani- (Internationally acclaimed dancer)





SMART INDIA HACKATHON '17

The Smart India Hackathon 2017 was a digital product development competition involving all Technical institutes in India with a reach to approximately 30 lakh students. The initiative has challenged the students to think out-of-the-box and offer innovative ideas to build smart applications which will help address major real time problems in our country. 29 Union Ministries/ Departments have joined as its partners and have posed a total of 598 problem statements to the students. The teams have competed with each other to tackle these problems and provide smart and disruptive digital technology innovations.

This initiative was launched on Nov 9, 2016 by Sh. Prakash Javadekar, Hon'ble Minister for HRD, New Delhi. The objective of SIH was harness creativity & expertise of students, spark institute-level hackathon, build funnel for 'Startup India, Standup India'



The 36-hour non-stop digital programming competition started in 26 different locations in the country with each location handled by one central department or ministry. Jaipur Engineering College and Research Centre (JECRC) hosted Smart India Hackathon on April 1 and April 2 and DIPP & DOP were among the departments given to students at JECRC. To promote honorable Prime Minister Sh. Narendra Modi's Digital India campaign, the hackathon is organized by the ministry of human resource development in association with NCERT and several other government departments.

SMART INDIA HACKATHON 2017 AT A GLANCE

Total Number of Departments participating	29 (and NIC + MyGOV for Tech support)
Departments giving problem statements	29
Number of Problem Statements Given	598
Total Number of Teams sending entries	7531
Number of Participants Per team	6
Number of Students applying	40,000+
Total Number of Colleges participated	2183
Total Number of Teams shortlisted for Hackathon	1266
Team confirmed participation	1268
Total Teams with Mentors	1058 (some team still do not have mentors)
Mentor (2 Mentors per selected Team)	2110
Total participants during Grand Finale	Approx.9500 to 10,000
Total nodal centers in India	26

The prizes were

- Prizes for the top winners under different categories are
- 1st prize – Rs.1,00,000/-
- 1st runner up – Rs.75,000/
- 2nd runner up – Rs.50,000/-
- Inspiration prize- Rs.10000/



Over 400 students of 50 teams and 25 subject experts, judges and technical officers from all over the country came to JECRC Campus and they contributed to the realization of the innovative ideas from 1-2 April during the event.

In Inauguration Ceremony Chief guest was Sh. Tilak De, member, Postal Services Board and other members from both the Ministries and Chairman Sh. Arpit Agarwal and all faculty members of the college were present.



No of teams in each ministry and AICTE nominated member and judges details are as follows:

		About the Teams in DOP	About the Teams in DIPP
I.	Number of Teams Enrolled	31 +01 (wild card)	18
II.	Number of Present Teams	26 +01	10
III.	Number of Wild Card Entries	01	0



In three rounds of evaluation, 8 teams among 27 teams were shortlisted in DOP and 8 teams among 18 in DIPP. On April 2, in Power Judging round 4 winner teams were selected in each ministry and on the same day in valedictory function winner teams were rewarded with the cash prize of Rs. 1 lac, Rs. 75000 and Rs. 50000 for the first, second and third positions respectively, and all the participants were awarded certificates.

WORKSHOP ON ANSYS



Date: 05 - 07 March 2017

Visiting faculty :

Mr. Jitendra Jagtap (Head Engineering and R&D, Optimizt Engineering services, Pune experience: 15 years in R&D),

Mr. Alok k. Khore (Application Engineer, Ansys)

Mechanical Department, JRCRC organized a free workshop for Ansys in the collaboration with ANSYS, India on 05 March 2017-- 07 march 2017. Mr. Jitendra discussed need of virtual design using FEM. He talked about tremendous application of FEM in real life complex problems. Interactive hands on sessions also provided for all three days (12 hours) to make students fluent in the software. Real life project was solved to make students understand the challenges of real life engineering. They explore almost every area of mechanical virtual designing and moulding as an automobile, structural, heat transfer, transient nonlinear problems and provided very deep knowledge to the students. The workshop free for everyone and around 100 students from 8 different colleges participated in the workshop. The overall experience was so good for all.





The student members of SAE (Society of Automotive Engineers) collegiate club of Jaipur Engineering College and Research Centre actively participate in various design competitions held across the country. Latest participation with their respective achievements and events details is listed below.

Specifications-

- **Elite Karting 2017**

Event was held in February 15th to 18th in Bhopal, Madhya Pradesh. Participation includes team of 20 students of club throb riders which is a part of Moonriders. Team had occupied 17th position in 168 teams.



Elite Karting 2017 which is a vehicle design competition in which teams consisting of engineering students from as well as the judges and officials. Various institutions in India compete. The teams are challenged to design and develop a small racing vehicle, known as Go-Kart. Based on a predetermined rulebook, the students must design the fastest and most effective machine while minimizing costs, maximizing reliability and utilizing the latest technologies.



Another team of Moonriders that took part in the same event was Motoroids. They grabbed the 34th position in the event.



- **Mega ATV championship 2017**

Event was held on March 13th to 17th in Ahmednagar, Maharashtra and organised by Autosports, India. Participation includes team of 24 members. The team has grabbed the 13th position in 76 teams.



The teams are challenged to design and develop a small off-road capable vehicle, known as All-Terrain Vehicle (ATV). Based on a predetermined rulebook, the students must design the most effective and robust machine while minimizing costs, maximizing reliability and utilizing the latest technologies. The competition has a broad range of events with a certain amount of points allocated to each event.

This was the 2nd edition of Mega ATV Championship supported by Dr. Vithalrao Vikhe Patel College of Engineering. Racing events challenged to teams are as follows-

- Drag Race: 1v1 race on 100m long track, time taken to complete was noted
- Flat Dirt Race: Time taken to complete one lap of the main track was noted
- Armageddon: Suspension test on a specially prepared obstacle course
- Mountain Rider: 3 hour endurance run in daylight on the main track
- Night Rider: 3 hour endurance run at night on the main track



- **JU- Rhythm 2017**

Throb Riders the club of Moonriders this year also took part in JU-Rhythm and grabbed the 1st position and won the coupons worth 10000 rupees and free qualification in their national karting event.



SOCH-kuchh kar dikhane ki

The social awareness group of our college has always tried to bring a change in society by organising various awareness campaigns at regular intervals of time to motivate the people to come forward and extend their contributing hand towards the prosperity of the nation and this time the SOCH TEAM has come up with a new initiative "Clean JECRC" inspired by the revolution of cleanliness being headed by our honourable prime minister Shri Narendra Modi organised on 12 April 2017.

The event was headed by all the honourable dignities of our college. This time the idea is enveloped in the arms of digitalisation, though initially it was not much advanced. Now soch team is facilitating everyone, easy access to be a part of this initiative, which would be very much worthy for the team too. The Team is providing a QR code on every flexes that were placed in the college premises and after scanning the same customer queries will be directly sorted out by our college supervisors, thus in this manner team have given a boost to member's initiative. The technique was praised by all the staff members as well as honourable Director.

Apart from the social platform Soch team has also provided a farewell to team seniors and the founders of our group Mr. AMAN GOYAL and Ms. NIKITA KACHHAWA on 13 May who helped in making the team and carrying forward the initiative, therefore it was one the remarkable moment for the entire team.



J-SID

“Self-development is an art and it is of utmost importance in the life of every individual. To ensure self-development of each and every student so that they could find their hidden talent which will make them stand out of the crowd.” Says Mr. Shubham Gupta, the founder of the JECRC Self Innovative Developers (JSID) group which is one of the most popular groups in the college. With its Faculty In-charge Mrs Prati-ma Dwivedi and Mrs Shaguna Chaturvedi, the group organized three weekly sessions that were aimed at embracing the creative side and eradicating glossophobia in the funniest possible ways, developing thoughtfulness and eventually stepping towards professional communication.



Activities organized by JSID group in academic year 2016-17:

1. 10th October 2016- A quiz in collaboration with JAIPURIA INSTITUTE.
2. Debate T20 (22 October 2016) -Second edition of an inter-college debate in which participants had to speak in favour and against a particular topic for every twenty seconds .
3. 25 January 2017 – J-SID RECRUITMENTS
4. 30th January 2017- The J-SID team welcomed its new members through a stupendous workshop on ‘Team Management’.
5. SITUATIONAL CUE (17th February 2017) - checked the spontaneity, imagination and creativity of the participants by making them to react to different reactions
6. 22nd February 2017– J-SID conducted a survey of 550 candidates within the JECRC campus in just 3 hours. The outcome of this survey was delivered to the team of TEDx JECRC.
7. Pic_A_Speako (9th March 2017) -. The first round had participants depicting the pictures in inter-esting ways. The teams that were promoted to the second round then presented a dialogue between vivid amusing characters.
8. Hunting Writer (10th March 2017)- The first round was a treasure hunt based on the theme ‘beg borrow steal’. In round two all the hunted objects were framed in a story thereby giving it’s winners the title of A HUNTING WRITER.

B S Engine

Pankaj Maharishi

Bharat Stage Emission Standards (BSES) are emission standards instituted by the Government of India to regulate the output of air pollutants from Internal Combustion Engines and Spark-Ignition Engines equipment, including motor vehicles. The standards and the timeline for implementation are set by the Central Pollution Control Board under the Ministry of Environment & Forests and climate change. BS is basically the emission standards given by Government of India to regulate the air pollutants coming from internal combustion engine

On 29 April 1999 the Supreme Court of India ruled that all vehicles in India have to meet Euro I or India 2000 norms by 1 June 1999 and Euro II will be mandatory in the NCR by April 2000. Car makers were not prepared for this transition and in a subsequent judgement the implementation date for Euro II was not enforced. In 2002, the Indian government accepted the report submitted by the Mashelkar committee. The committee proposed a road map for the roll out of Euro based emission norms for India. It also recommended a phased implementation of future norms with the regulations being implemented in major cities first and extended to the rest of the country after a few years. Based on the recommendations of the committee, the National Auto Fuel policy was announced officially in 2003. The road map for implementation of the Bharat Stage norms was laid out till 2010. The policy also created guidelines for Auto fuels, reduction of pollution from older vehicles and R&D for air quality data creation and health administration. The below standards apply to all new 4-wheel vehicles sold and registered in the respective regions.

Standard	Reference	YEAR	Region
India 2000	Euro I	2000	Nationwide
Bharat Stage II	Euro 2	2001	NCR†, Mumbai, Kolkata, Chennai
		2003.04	NCR†, 13 Cities†
Bharat Stage III	Euro 3	2005.04	Nationwide
		2010.04	NCR†, 13 Cities†
Bharat Stage IV	Euro 4	2010.04	NCR†, 13 Cities†
		2017.04	Nationwide
Bharat Stage V	Euro 5	(to be skipped)	
Bharat Stage VI	Euro 6	2020.04 (proposed)††	Entire country

* National Capital Region (Delhi)
 † Mumbai, Kolkata, Chennai, Bengaluru, Hyderabad, Ahmedabad, Pune, Surat, Karpur, Ludhiana, Shillong, Jalandhar and Agartala

Year	CO	HC	HC+NO _x
1991	12-30	8-12	-
1996	5.50	-	3.60
2000	2.00	-	2.00
2005 (BS II)	1.5	-	1.5
2010.04 (BS III)	1.0	-	1.0

Year	Reference	CO	HC	NO _x	PM
1992	-	14.0	3.5	18.0	-
1996	-	11.20	2.40	14.4	-
2000	Euro I	4.5	1.1	8.0	0.36*
2005†	Euro II	4.0	1.1	7.0	0.15

* 0.612 for engines below 85 kW
 † earlier introduction in selected regions, see Table 1

In order to comply with the BSIV norms, 2- and 3-wheeler manufacturers will have to fit an evaporative emission control unit, which should lower the amount of fuel that is evaporated when the motorcycle is parked.

Fuels

Fuel quality plays a very important role in meeting the stringent emission regulation.

The fuel specifications of petrol and diesel have been aligned with the Corresponding European Fuel Specifications for meeting the Euro II, Euro III and Euro IV emission norms.

The BS IV grade fuel was introduced in 2010 and is available in 39 cities, as reported in 2016. The rest of the country has to make do with BS III fuel.

CO₂ emission

India's Auto sector accounts for about 18% of the total CO₂ emissions in the country. Relative CO₂ emissions from transport have risen rapidly in recent years, but like the EU, currently there are no standards for CO₂ emission limits for pollution from vehicles. Exposure to air pollution can lead to respiratory and cardiovascular diseases, which is estimated to be the cause for 6.2 lakh early deaths in 2010, and the health cost of air pollution in India has been assessed at 3% of its GDP.

Construction machinery

Emission standards for diesel construction machinery were adopted on 21 September 2006. The standards are structured into two tiers:

Bharat (CEV) Stage II—These standards are based on the EU Stage I requirements, but also cover smaller engines that were not regulated under the EU Stage I.

Bharat (CEV) Stage III—These standards are based on US Tier 2/3 requirements.

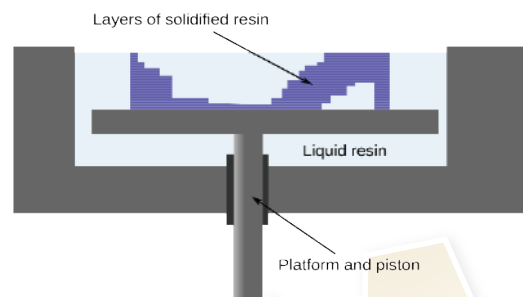
The standards are summarised in the following table:

Engine Power kW	Date	CO	HC	HC+NO _x	NO _x	PM
g/kWh						
Bharat (CEV) Stage II						
P < 8	2008.10	8.0	1.3	—	9.2	1.00
8 ≤ P < 19	2008.10	6.6	1.3	—	9.2	0.85
19 ≤ P < 37	2007.10	6.5	1.3	—	9.2	0.85
37 ≤ P < 75	2007.10	6.5	1.3	—	9.2	0.85
75 ≤ P < 130	2007.10	5.0	1.3	—	9.2	0.70
130 ≤ P < 560	2007.10	5.0	1.3	—	9.2	0.54
Bharat (CEV) Stage III						
P < 8	2011.04	8.0	—	7.5	—	0.80
8 ≤ P < 19	2011.04	6.6	—	7.5	—	0.80
19 ≤ P < 37	2011.04	5.5	—	7.5	—	0.60
37 ≤ P < 75	2011.04	5.0	—	4.7	—	0.40
75 ≤ P < 130	2011.04	5.0	—	4.0	—	0.30
130 ≤ P < 560	2011.04	3.5	—	4.0	—	0.20

3D Printing - get it in real

Rohit Mehta and Shubham Gupta

The heading might be confusing but the concept is not! No one could have imagined in their wildest of guesses if they could get real stuff out of printing. 3-D printing, 3D printing is a form of additive manufacturing technology where a three dimensional object is created by laying down successive layers of material. The 3D printing concept of custom manufacturing is exciting to nearly everyone. 3D Printing uses software that slices the 3D model into small layers. Each layer is then traced onto the build plate by the printer, once the pattern is completed. Typical manufacturing techniques are known as 'Subtractive Manufacturing'.



Applications

There is a vast range of applications of 3-D printing which is not just limited to engineering fields but also one can design things of his interests and home use. Some typical applications

- Prototyping
- Specialized parts – aerospace, military, biomedical engineering, dental
- Hobbies and home use
- Future applications– medical (body parts), buildings and cars

Areas in which it is currently in use

Though it is a relatively new technology but its use in industry has already begun owing to its utility. The sectors in which it is currently in use are:

- Biomedical Engineering
- Construction and architecture
- Aerospace and automobile manufacturing
- Product Prototyping

Advantages

1. Layer by layer production allows for much greater flexibility and creativity in the design process
2. 3D Printing significantly speeds up the design and prototyping process. Parts can be created within hours.

Disadvantage

1. The limitations of 3D printing in general include expensive hardware and expensive materials

System of Quad Copters that Fly and Drive Suggest another Approach to Developing Flying Cars

Being able to both walk and take flight is typical in nature many birds, insects, and other animals can do both. If we could program robots with similar versatility, it would open up many possibilities. Imagine machines that could fly into construction areas or disaster zones that aren't near roads and then squeeze through bright spaces on the ground to transport objects or rescue people.

Researchers from MIT's are aiming to develop robots that can both manoeuvre around on land and take to the skies. In a news paper, the team presented a system of eight quad copter drones that can fly and drive through a city-like seeing with parking spots, no-fly zones, and landing pads.



The ability to both fly and drive is useful in environments with a lot of barriers, since you can fly over ground obstacles and drive under overhead obstacles, says PhD student Brandon Araki, lead author on the paper. Normal drones can't manoeuvre on the ground at all. A drone with wheels is much more mobile while having only a slight reduction in flying time

New Scaling Law Predicts How Wheels Drive Over Sand

Engineers at MIT have come up with a scaling law to describe how objects move through sand. The scaling law can be used to predict how large trucks and cars drive through this material, based on how toy versions of those vehicles drive through an experimental sandbox containing the same grains.

Aircraft engineers typically use scaling laws to; for example, determine the minimum force of lift required to keep a full-sized jet alone, based on the same minimum lift for a model plane. Such scaling laws are initially derived from physics-based equations that describe the way a fluid, such as air, behave. Formula could help optimize construction vehicles, military tanks, and rovers on Mars.



Kumar Mangalam Birla- An Inspiration

Kumar Mangalam Birla (born 14 June 1967) is an Indian industrialist and the Chairman of the Aditya Birla Group, one of the largest conglomerate corporations in India. He is also the chancellor of the Birla Institute of Technology & Science. Birla is a fourth-generation member of the Birla family from the state of Rajasthan. He was born in Kolkata and raised in Mumbai. He has a B.Com degree from University of Bombay, MBA degree from London Business School, where he is Hon. Fellow and CA (Chartered Accountant) from ICAI (India). Birla took over as chairman of the Aditya Birla Group in 1995, at the age of 28, following the death of his father Aditya Vikram Birla. During his tenure as chairman, the group's annual turnover has expanded from US\$3.33 Billion in 1995 to US\$41 billion in 2015.



Birla has received several accolades, including the International Advertising Association's "CEO of the Year Award" in 2016, the US India Business Council's "Global Leadership Award" in 2014, Economic Times "Business Leader Award" in 2003 and 2013, Forbes India Leadership Award – Flagship Award "Entrepreneur of the Year 2012", NDTV Profit Business Leadership Awards 2012, "Most Inspiring Leader", CNBCTV18 IBLA "Business Leader for Taking India Abroad 2012", CNN-IBN "Indian of the Year Award 2010", JRD Tata "Leadership Award 2008", NDTV's "Global Indian Leader of the Year 2007".

An educationist, Birla is the Chancellor of Birla Institute of Technology & Science (BITS). He is Chairman of IIT, Delhi, and Chairman of Rhodes India Scholarship Committee for Oxford University.

Mukesh Ambani - An Iconic Entrepreneur

An iconic personifying extreme innovation, excellence and execution, Ambani is never short of creating disruptive next practice and generating exponential value for the company, for the nation and for the people. Mukesh Dhirubhai Ambani (born 19 April 1957) is an Indian business magnate who is the chairman and managing director and largest shareholder of Reliance Industries Limited (RIL), a fortune global 500 company and India's second-most valuable company by market value.



Mukesh Ambani got a BE Degree in Chemical Engineering from Institute of Chemical technology at Matunga. Mukesh Ambani joined Reliance in 1981 and become its Chairman and Managing Director in 2002. Under his leadership Reliance Industries made a foray into sectors like petroleum refining, petrochemicals and gas exploration. He also setup Reliance Infocomm Limited (presently Reliance Communi-cations Limited).

He is the only Indian businessman, on Forbes list of the world most powerful people. He also owns the Indian Premier League franchise Mumbai Indians. Ambani was awarded the 'world' communication award for the most influential person in telecommunications' by Total telecom and 'Telecom Man of the Year' by the voice and data magazine. Mukesh Ambani announced a few month back that Reliance JIO Infocomm launch 4G service in the commercial capacity in 2015, incurring a whopping 70,000 crore investment in India. It will use the Pan-India BWA spectrum for the 4G service rollout, which will cover almost 90 percent of urban regions and more than 215,000 villages

Alumni Speaks

AKSHAT YADAV (2004-2008)

College is not just a place where you learn answers to a lot of life's questions but also a phase which will make you question a lot of life's answers.....

I have completed my B.tech in 2008 from Mechanical Engineering with all the dreams, knowledge and experience of the wonderful and the most amazing four years of my life, I moved to Ranchi to pursue my dreams and to take the knowledge to another level in 2009 I joined Xavier Institute of Social Service for MBA in HR form where I got selected in a Public Sector Company Hindustan Copper Limited as a Management trainee (Human Resource) and was posted in Rajasthan. In August 2015 I was transferred to Hindustan Copper Limited at Gujarat as posted as unit HR Head and till then I'm continuing at this unit. JECRC has played a vital role in my carrier development the Institute and Faculties has nurtured me so well that I always feel proud to be a part of JECRC.

I'm very much thankful to the Arpit Sir, Manish Jain Sir & M.P Singh sir for their guidance and support.



MECHZINE

Alumni Speaks

SAURABH JAIN (2004-2008)

Good wishes to all

I have completed my graduation in 2008. Initially I joined in I.T branch but during first year found my interest in Mechanical and shifted to it after completing first year. Those four years (2004-2008) were undoubtedly the best years of my life. Great teachers, friends & memories are assets that I gained in that period which have made me a rich person, not by virtue of money but by emotions and relationships. M.P.Singh Sir, Manish Jain Sir and Kuldeep sir are people whom I owe a lot in my life.



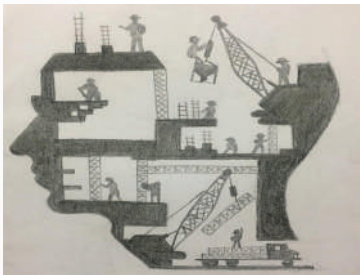
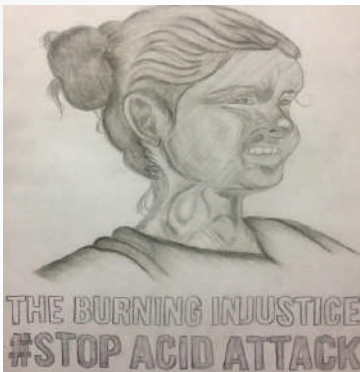
I joined Reliance Industries limited as a Maintenance Engineer in 2008 and had worked there till 2010, then went on for pursuing my MBA from Delhi Technological University (Popularly known as Delhi College of Engineering). Since 2012, I am working with Tata Hitachi Construction Machinery Company Private limited as Sr. Manager-Sales & Marketing in Jaipur.

Sitting in my office while writing this note pictures of College campus, Yadav ji ki canteen, Mechanical labs & old friends are floating in my mind, I am feeling nostalgic. I am having a feeling of Gratitude towards the Institute for allowing me to be a part of it.

MECHZINE

Artist Column

by - Anshul Jain



From the Diary- A time to believe

Dhruv Laddha

A Time to Believe

To believe is to know that
every day is a new beginning.
Is to trust that miracles happen,
and dreams really do come true.

To believe is to see angels
dancing among the clouds,
To know the wonder of a stardust sky
and the wisdom of the man in the moon.

To believe is to know the value of a nurturing heart,
The innocence of a child's eyes
and the beauty of an aging hand,
for it is through their teachings we learn to love.

To believe is to find the strength
and courage that lies within us
When it's time to pick up
the pieces and begin again.

To believe is to know
we are not alone,
That life is a gift
and this is our time to cherish it.

To believe is to know
that wonderful surprises are just
waiting to happen,
And all our hopes and dreams are within reach.

If only we believe.



YOGA

By:- Dr. Manish Srivastava

...Know Yourself...Health Numbers

This is a very important step in maintaining our health and it can make a lot of difference of understanding where we stand. Do you remember the picture of a positive health because somebody rightly said health is wealth? These numbers are indicators which point out where we are in health spectrum as “positive health”, at absence of disease or at disease.

There are few key numbers which are very important numbers and one of them is blood pressure. Blood pressure consists of two numbers- Systolic pressure and Diastolic pressures, both of these numbers are important, because one is normal doesn't mean you are off the hook.

It actually varies with age, but in general the normal blood pressure is below 120/80. You are at risk of hypertension (pre-hypertension) when your BP is 120-139 (Systolic) and /or 80 to 89 (Diastolic). At this stage it is still reversible with Lifestyle changes, hypertension is also known as high blood pressure.

In medical literature there is no condition called “low blood pressure” as we mean it. Infect low blood pressure in real sense is a very dangerous and occurs only in very serious condition like when you lose blood during in drug or if you have several infections.

Every people have different body structures, weight etc, so all normal values are not a Diastolic numbers but a range. As long as you fall within that range, your BP is normal.

You can follow the below given ways to keep fit yourself

Type	Mon	Tue	Wed	Thu	Fri	Sat	
Flexibility	Yoga----- Everyday						
Strangth	Floor Ex.		Weight		Floor Ex.		
Stamina		Walking		Cycling		Treadmill	

FACULTY PROFILE

DEPARTMENT OF MECHANICAL ENGINEERING



Dr Mahendra Pratap Singh
Professor, HoD



Mr Manish Jain
Associate Professor



Dr Bhuvnesh Bhardwaj
Associate Professor



Dr Manish Srivastava
Associate Professor



Mr Kuldeep Sharma
Assistant Professor



Mr Lalit Kumar Sharma
Assistant Professor



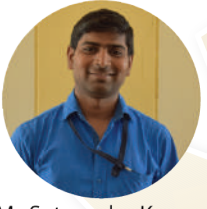
Mr Dayal Singh Rathore
Assistant Professor



Mr Sandeep Yadav
Assistant Professor



Mr Vipin Goyal
Assistant Professor



Mr Satyendra Kumar
Assistant Professor



Mr Rajendra Kumar Gupta
Assistant Professor



Mr Nikhil Jain
Assistant Professor



Mr Jaydev Varma
Assistant Professor



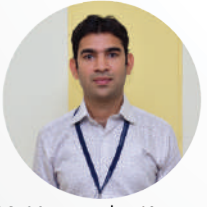
Mr Nitin Chhabra
Assistant Professor



Mr Akhil Vijay
Assistant Professor



Mr Dilip Kumar Prajapati
Assistant Professor



Mr Veerendra Kumar
Assistant Professor



Mr Jitendra Kumar Gupta
Assistant Professor



Mr Ravi Kumar Jangid
Assistant Professor



Mr Aashish Nagpal
Assistant Professor



Mr Ravi Yadav
Assistant Professor



Mr Ravindra Singh Yadav
Assistant Professor



Mr Hukum Chand Nagar
Assistant Professor



Mr Abhishek Kumar
Assistant Professor



Mr Tejendra Singh
Assistant Professor



Mr Inzamam UI Haque
Assistant Professor



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