The Mechanical News

MECHANICAL ENGINEERING DEPTT.

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VISSION AND MISSION OF COLLEGE

VISSION OF COLLEGE

 TO BECOME A RENOWNED CENTRE OF OUTCOME BASED LEARNING AND WORK TOWARDS, ACADEMIC, PROFESSIONAL AND SOCIAL ENRICHMENT OF THE LIVES OF INDIVIDUALS AND COMMUNITIES.

MISSION OF COLLEGE

 FOCUS ON EVALUATION OF LEARNING OUTCOMES &MOTIVATE STUDENTS TO INCULCATE RESEARCH APTITUDE BY PROJECT BASED LEARNING.

 IDENTIFY, BASED ON INFORMED PERCEPTION OF INDIAN, REGIONAL & GLOBAL NEEDS, THE AREAS OF FOCUS & PROVIDE PLATFORM TO GAIN KNOWLEDGE & SOLUTIONS.

 OFFER OPPORTUNITIES FOR INTERACTION BETWEEN ACADEMIA AND INDUSTRY.

 DEVLOP HUMAN POTENTIAL TO ITS FULLEST EXTENT SO THAT INTELLECTUALLY CAPABLE & IMAGINATIVELY GIFTED LEADERS MAY

VISSION AND MISSION OF MECHANICAL DEPTT.

VISSION OF DEPARTMENT

 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 OF DEPARTMENT

 TO IMPART HIGHEST 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 LINKAGE.

PROGRAMME OUTCOMES

1. *Engineering knowledge:* Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. *Problem analysis:* Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. *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.

4. *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.

5. *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.

6. *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.

7. *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.

8. *Ethics:* Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. *Individual and team work:* Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. *Communication:* Communicate effectively on complex engineering activities with the engineering community and with society at large, s uch as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. *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.

12. *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.

ISRO Chairman Padma Shri A.S Kiran Kumar @ JECRC

Convocation of JECRC University.

He also visited JECRC college during which he visited Spiritual centre , different labs & newly inaugurated

We were immensely overwhelmed to welcome the Chairman of ISRO in JECRC foundation on 6 Jan. 2018. He was the Chief Guest of the First

D-Block & Mechanical Deptt. Labs. We were really thankful to him for taking out his precious time for us

*A creative man is motivated by the desire to achieve, not by the desire to beat others*

69th Republic Day Celebration @ JECRC

Saluting India! Where each bud blooms in its true colours, where each day is celebration of unity, harmony and synthesis.

With patriotism in heart & freedoms in our mind JECRC gathered to celebrate our 69th Republic Day. The Chief Guest for the day was Dr. V.K

Chandna, after Flag hoisting he addressed the Students & Faculty members with his motivational

words. The day ended with beautiful & mesmerising performances by stars of JECRC.
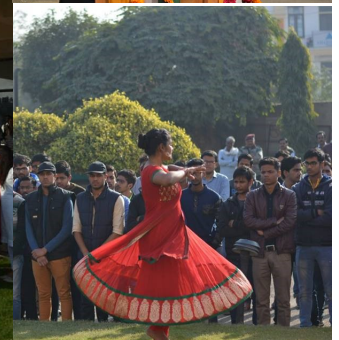
JECRC witnessed its first ever Hackathon on 10-11 January Inauguration of this 24-Hr event was done by our honorable guests Prof. Dileep N. Malkhede, Advisor AICTE, New Delhi and Prof. N.P.Kaushik, Vice Chancellor, Rajasthan Technical University, Kota. Also, we were honored to have Mr. Mohammad Imran khan, Web developer who has developed 75 mobile educational apps and donated all of them to Ministry of Hu-

man resource development (MHRD) as patriotic contribution to digital India and Ms.Nayani Nasa Manager, Start Up India , Invest India who is working as a dot connector between entrepreneurs and investors while facilitating their engagement with mentors, government, industry and academia.

We had a two level Scrutiny process to select the teams for the final event. The first round was a mentor level Scrutiny test organized on 4th January,2018 and the second level was done by external judges on 8th January,2018. We were very proud that about 300 teams registered and 152 teams were finally selected after going through 2 levels of mentor scrutiny. 768 students started coding and converting their innovative ideas into new developments on 10th January 2018. 12 judges and 123 mentors were there throughout the event to guide them & fertilize the raw brains of young talents with their experience.

Our esteemed panel of judges includes 6 persons owning start ups and the rest 6 are on reputed positions in various software fields. After 2 rounds of judging, finally 47 teams were ready for power judging and 21 teams reached the top and grabbed the prizes from our eminent academicians Dr. Ravi Kumar Maddila, Assistant Professor, Department of Electronics & Communication Engineering MNIT; Dr. Sanjeev Agrawal, Associate Professor, Department of Electronics & Communication Engineering MNIT and Dr. Ashish Kr. Ghunawat Assistant Professor, Department of Electronics & Communication Engineering MNIT. Our sponsors were- Engineer's Academy, Forsk Technologies and Road Ahead Technologies India Pvt. Ltd.

MOON RIDERS

EITHER WE WIN... OR WE LEARN

Moonriders is one of the teams in automobile club of college. Team has been representing college at various national level Automobile Events of Go-Kart, ATV, Baja etc. for many years now.

This year various teams represented college in IKC Season 2, which is 2nd season of a National level Go-Kart event hosted by SAE (Society of Automotive Engineers).

Virtual Round was the first round of IKC Season 2 and was conducted online where teams from nationwide participated and presented a prototype of their respective models and the Computer Aided Design of karts.The final rounds of event was hosted at Kolhapur under SAE. Team Moonriders was competent with other national level teams and performed very well. This event was held from 11.01.18 to 15.01.18

In NKRC Season 4, team achieved a great All India Rank in Business Plan for Go-Kart. Team had stepped into final rounds of Business Plan and was certain to achieve a great feat, but unfortunately event could not be continued further and thus, next rounds were not held which proved to be a setback. As of last update, team was on 8th rank in Business Plan Presentation

FACULTY ACHIEVEMENT

Dr. M.P Singh HOD Mechanical Department attended the "International conference on Emerging Trends in Materials & Mechanical Engineering" as Session Chair at Poornima Institute of Technology, Jaipur on 29-30 January 2018.

CADD SEMINAR @ JECRC

CADD seminar was organised in Mechanical department on 19 January 2018 the seminar was taken by Mr. Rajeev Bhargava (director , CADD centre, rajapark) talked to the students of 2nd /3rd year about latest development in CADD technology, 3d printing, 3d scanner, Artificial intelligence in mechanical domain. He also added the use of CADD software like ANSYS, SOLID WORKS, HYPERMESH, CATIA etc. In the mechanical engineering and real word simulations. Students were thankful to HOD Sir & Mr. Satyendra for organising such technical sessions.

Well done is better than well said.

Benjamin Franklin

SEMINAR BY ENGINEERS ACADEMY

A seminar was organized on 20 January 2018. The topic was "career options after B.tech". In this session discussion about various career options were discussed by Mr. Sumit Gupta from Engineers Academy. He gave a PowerPoint presentation on different exams like GATE/IES/PSU'S JEN etc .

At the end of the session he also discussed how students can become an Entrepreneur .

INDUSTRIAL VISITS BY FACULTIES

Faculties of Mechanical department Mr.Vipin Goyal, Mr. Yogesh Dubey, Mr.Satya Prakash Saini, Mr. Akhil Vijay & Mr. Hemant Bansal visited various Industries in & around Rajasthan for a special interaction with them & making sound technical relations which will help students in their training as well as upcoming placements.

SHUDDER OFF YOUR PROBLEMS

Inspirational Story

A man's favourite donkey falls into a deep precipice. He can't pull it out no matter how hard he tries. He therefore decides to bury it alive.

Soil is poured onto the donkey from above. The donkey feels the load, shakes it off, and steps on it. More soil is poured.

It shakes it off and steps up. The more the load was poured, the higher it rose. By noon, the donkey was grazing in green pastures.

After much shaking off (of problems) And stepping up (learning from them), One will graze in GREEN PASTURES.