



The Mechanical News

MECHANICAL ENGINEERING DEPTT.

VISION AND MISSION OF COLLEGE

EVERY ONCE IN

VISION 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.

NEW TECHNOL-

MISSION OF COLLEGE

OGY, AN OLD

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

PROBLEM, AND

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

A BIG IDEA

OFFER OPPORTUNITIES FOR INTERACTION BETWEEN ACADEMIA AND INDUSTRY.

TURN INTO AN

DEVELOP HUMAN POTENTIAL TO ITS FULLEST EXTENT SO THAT INTELLECTUALLY CAPABLE & IMAGINATIVELY GIFTED LEADERS MAY EMERGE.

SPECIAL POINTS OF INTEREST:

- Best Faculty Award
- SPIC MACAY
- SWACHTA PAKHWADA
- VISIT OF Dr. SANJEEV OHRI
- PLACEMENTS

VISION AND MISSION OF MECHANICAL DEPTT.

VISION 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, such 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.

TEACHERS DAY IN MECHANICAL DEPTT.

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 stu-



dents of 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 by Pankaj Maharashi 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

ment were also invited to deliver some thoughts, 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.



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 depart-

ment were also invited to deliver some thoughts, 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.

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FACULTY ACHIEVEMENTS

A good teacher can inspire hope, ignite the imagination, and instil a love of learning.
Brad Henry

1. Dr. M.P Singh HoD M.E Deptt. Presented a paper entitled **“Aerodynamic analysis of NACA0012 Airfoil using CFD”** at ICMPE by World research forum for Engineers & Researchers.
2. Dr. M.P Singh HoD M.E Deptt. Attended an ICT based short term course organized by NITTTR at JECRC from 18-22 Sept. 2017 .
3. Dr. Bhuvnesh Bhardwaj research paper entitled **“Development of empirical relationship for surface roughness during the machining of metal matrix composite”** got accepted at SRM University, International conference .
4. Dr. Bhuvnesh Bhardwaj & Mr. Nikhil Jain research paper entitled **“Effect of weight percentage of Titania in A380 alloy based MMC on mechanical properties”** accepted at IIT Rorkee.
5. Dr. Bhuvnesh Bhardwaj research paper entitled **“Study of sliding wear behavior of alumina oxide filled fiber composite using design of experiments”** got accepted at SRM University, International conference.



BEST FACULTY AWARD

Four faculty members of department received faculty appraisal from Dr. Dr. Vinay Kumar Chandna, Principal, JECRC on 01 Sep 2017.

DR. M. P. Singh (HoD ME) received the appraisal for his dedication towards department.

Mr. Manish Jain received appraisal as dedicated faculty member as well as for his extra ordinary service in department,

Mr. Kuldeep Sharma got appraisal as dedicated and enthusiastic faculty member of department as well as his contribution for placement

Dr. Bhuvnesh Bharadwaj received the Faculty Appraisal for Best Faculty Award in M.E Department.





INDUSTRIAL VISIT

MICRO SMALL AND MEDIUM ENTERPRIZATION (MSME) JAIPUR

BY M.E DEPTT. JECRC ON 06-09-2017

B. Tech. III year, V sem. A section 45 students with three Faculty members of Mr. Vipin Goyal, Mr. Rajendra Kumar Gupta and Mr. Hukam Chand Nagar visited the MSME, 22 Godam, Jaipur.

(I) CNC lathe Machine Section

First students visited the CNC machine section where the very robust machine was there. Mr. Rakesh Bangha Superintendent told This ma-



chine is very useful for achieving the high accuracy and mass production. The machine model was PUSHKAR 200

(II) CNC Milling Machine Section

Then the student visits the CNC milling section where they saw the model VMC 400 of the CNC milling machine. This machine is used mainly for high

accuracy moulds and dies for various casting processes.

(III) EDM wire cut machine

EDM stands for electric discharge machine. EDM wire cut works on the prin-

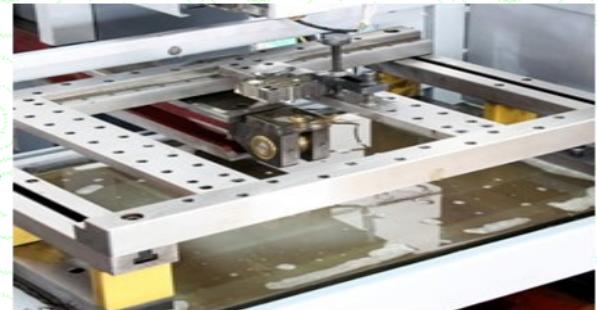
workpiece.

(V) CAD- CAM lab

Then the students went to CAD lab. The instructor there told the students about different designing, modeling and simulation software and basic of all of them.

(VI) 3-D scanner and printer

Then students saw a 3-d printer and scanner. The 3-d printer works on additive technology. It is a new technology.



Then students visited the surface grinding and finishing section where there were many machine for grinding and finishing different tools and

In the 3-D printing the product is made by layer by layer by adding layers one after one over each other.

(VII) Solar cell section

Then students visit the solar cell section. The MSME trains the student and various small industries about the solar cell maintenance and installment so that they can help in growth of renewable energy.

SPIC MACAY - A DOOR TO INDIAN CULTURE

JECRC got the privilege to host an interactive session with Dr. Kiran Seth, Founder of SPIC MACAY, a voluntary organization with the aim of promoting and popularizing the study of Indian classical music and dance. He introduced us to the working process of SPIC MACAY and its various programs and initiatives. He also spoke about the importance of preserving and promoting Indian classical arts and the role of SPIC MACAY in achieving this goal. The session was informative and inspiring, and we learned a lot from Dr. Kiran Seth's insights and experiences.



of promoting Indian classical music and culture amongst youth. He was accompanied by Mr. Aniruddha Bhatt a JECRC alumnus (CSE-2015). Dr.

of SPIC MACAY on 8 Sep 2017. Dr. Seth a well-known person in the field of arts is an Indian academician, Professor Emeritus in the department of mechanical engineering at the Indian Insti-



yoga and its benefits and enlightened the students on the science of Indian music and arts with the intellect level of individuals. His session proved to be a doorstep for our students to the Indian music

MOON RIDERS JECRC @ NKRC

A team of 18 students of Moonriders visited Radharamn Engg. College, Bhopal from 29/9/17-5/10/17



RTU INTER-COLLEGE CHESS TOURNAMENT

Students of Mechanical Department participated in RTU Inter-College Chess Tournament Organised by Pacific Business School, Udaipur from 12-14 September 2017.

The tournament had 18 teams in total from which RTU main team was also selected in this team.

JECRC Chess team was runners up and Selected players were

Yeeshu Dwivedi - 3year, 5sem Mechanical
Dhruv Laddha- 4year, 7sem Mechanical



SWACHHTA PAKHWADA @ JECRC

"We can no more gain God's blessing with an unclean body than with an unclean mind. A clean body cannot reside in an unclean city." – Mahatma Gandhi

JECRC got the opportunity to organize "SWACHHTA PAKHWADA" an AICTE initiative. Several events were organized for 15 days, within the campus and near by places. Rallies were conducted during this week to create awareness among the students and faculties. Nearby hospitals were visited where maintenance of hygiene was checked and they were instructed on the ways to maintain

hygiene." Goner" village was visited on the 8th day of "Swachhta pakhwada" and hygiene related issues were taken into consideration. The orphanage "Apna ghar" was visited on the 11th day, where our members spent a lovely time with the children there. Contest like Essay writing, cleanest hostel room, and elocution were organized during the pakhwada weeks. Goodies were distributed to all the parti-

pants. and winners of the conducted events. We are really honoured to have such supportive departments who stood with us in every step of "SWACHHTA PAKHWADA". These days passed within a wink of an eye, not only students participated with great enthusiasm but the faculties contributed their bit too.





VISIT TO MAHATMA GANDHI HOSPITAL TO STUDY ABOUT BIOMEDICAL WASTE MANAGEMENT

Students of Mechanical IIIrd year visited Mahatma Gandhi Hospital on 14th Sept. 2017

complete biomedical waste management process . The aim was to make improvements and gradually move towards a sustainable system in order to achieve a

take a lead in this vital area of health care. Students were very happy to be a part of this campaign and learning about different ways of waste management .



during Swachhta Pakhwada campaign @JECRC along with two faculty Members Mr. Ravi Yadav and Mr. Shashank Shekhar Singh to study about the

healthier environment, mind and body.

It's the time that our youth should



VICE PRINCIPAL OF DUDLEY COLLEGE UK VISITED JECRC FOUNDATION



Dr. Sanjeev Ohri, Vice Principal, Dudley College, UK visited JECRC Foundation. He visited spiritual cell and also inaugurated



Mechanical Workshop.



He interacted with JECRC students and explored the possibilities in students and faculty exchange programme with Dudley college, UK.



SEMINAR ON SEA & BEYOND

A seminar was organized on Captain conducted a very interactive and enlightening session to create understanding in the minds of students regarding merchant navy as a career prospect. They threw light on

the different departments involved in the smooth functioning of the institution.

The students were made aware about the correct entry procedure and the ways to identify and avoid fraud marine institutes and hiring agents who often publish misleading advertisements in newspapers. The students and staff of JECRC foundations were enriched and delighted by the words of wisdom from the esteemed guests. The Principal, HoD (ME), TPO (ME) & staff members were present in the seminar and motivated the students of various branches.



The event was graced by the presence of the chief guest Mr. Tushar Sharma, The Deputy General Manager and the guest of honour Capt. Vichitra Kumar, Marine Superintendent of "Elegant Marine Services". The seminar was organised by Rajasthan Merchant Navy Officers Association and Yuva Sathi Sangathan in association with Elegant Marine Services. The DGM and the



the working process of the Merchant Navy, the different types of ships and

SPECIAL PRE PLACEMENT LECTURE FOR PINNACLE INFO TECH LTD. BY MR. SHRIKANT BANSAL & MR. NITIN

A special lecture was organized by Mechanical Deptt. On 10 sept.2017 for students of M.E, E.E & Civil for their upcoming placement of Pinnacle Infotech. The topic was basics of "Engineering Drawing" and it helped students a lot in their placement.

Students were thankful to Mr. Shrikant Bansal & Mr. Nitin

Chhabra for their valuable time & knowledge.



Placement

OUR STAR ACHIEVERS



On 2 Sept. 2017 Placement drive was conducted at **JECRC** by **Accenture** in which following students from M.E were selected .

Shubhank Sharma
Shahjade Alam
Aishwarya Johari
Dhruv Ladha
Mayank Sharma

Another Placement drive was conducted at JECRC by **Pinnacle Info tech Ltd.** On 11 Sept. 2017 in which 25 students got selected from M.E

Akshay Galav

Anmol Rajawat

Arpit Gupta

Nayan Singh

Pallav Pandey

Piyush Kataria

Rahul Gupta

Satyam Jain

Sourabh Mangal

Shobhit Yadav

Shubham Garg

Shubham khandelwal

Shubham Rathi

Vaibhav kumar Garg

Vinod Kumar Patel

Vishal Sharma

Vivek Sharma

Vivek Soni

Yash Kumar Gupta

Akshay Darshan Singh

Vaibhav Mishra

Arun Shringi

Harshit Sharma

Mohit Pareek

Simran Susana

Students were thankful to all the efforts done by college, HOD Dr. M.P Singh & Training Placement officer of M.E Deptt. Mr. Kuldeep Sharma & Mr. Akhil Vijay

ENGINEERS DAY@JECRC M. E DEPTT.



The Engineering Community across India celebrates Engineers Day on 15 September every year as a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya.

As is our custom, this year too, this day was celebrated with great enthusiasm and zeal across all the departments of JECRC. In Mechanical Department various activities

were conducted which attracted a lot of student-teacher participation. Dr. V.K. Chandana sir, Vice Chairman, Technical Dumb Charades was a fun M.L.Sharma sir and Director Social activity which was well responded by Initiative, O.P.Jain sir. students. Poster Designing Competition, Quiz and Extempore were an-

other events organised in which winners were awarded prizes. Mr. Hemant Bansal and Mr. Shrikant Bansal were the program coordinators. Most of the faculty members of Mechanical Dept. including our HOD, Dr. M.P. Singh were also present to cheer and motivate the participants. The events were graced by the presence of our

Director, Arpit Agarwal sir, Principal, Director, Arpit Agarwal sir, Principal, of student-teacher participation. Dr. V.K. Chandana sir, Vice Chairman, Technical Dumb Charades was a fun M.L.Sharma sir and Director Social activity which was well responded by Initiative, O.P.Jain sir. students. Poster Designing Competition, Quiz and Extempore were an-

BITS OPEN SPORTS MEET 2K17
The annual sports festival of BITS pilani was organized from 21-25 September in which different sports events were organized and various countries participated, among all the participants Rajat Srivastav of 3rd Yr M.E participated in Swimming and won second position in 200m free style stroke. Manish, Hemant, Dhruv of 3rd Yr. M.E & Rajat, Shubham, Pankaj & Luvkesh of 2nd Yr M.E participated in Cricket tournament.



Rajat Srivastav

RTU BADMINTON TOURNAMENT

JECRC badminton team participated in RTU Inter University Badminton Tournament held between

02/09/2017 to 07/09/2017. Aditya Sharma & Sourabh Gupta participated in the event where Sourabh Gupta got

the position of 1st runner up. Sourabh Gupta is also selected for All India University West Zone Tournament.

