



Head of the Department's Message



Dr. A B Dhruv

Dear Students & Faculty Members,

I wish all of you are safe and healthy.

Before lockdown we have arranged industrial visits and awareness seminar for overall development of the students and to enable them to gain knowledge beyond syllabus. Through this newsletter I thank all industries and experts who had spared their valuable time for our students. During lockdown Webinar was arranged which helped students to gain the knowledge through online platform.

Year 2020 arrived with different sets of challenges. As we adapt to this Covid-19 pandemic we are shaping our teaching techniques to ensure that all students can continue studies at their place. We will take this as opportunity to enhance the way we deliver our teaching and learning but will continue to provide the high level of experience that you expect in a supportive environment.

For our E-Learners, I wanted to thank them all for working through the initial technical glitches as we all really start to channelize our online teaching. Our teachers are working so hard to master teaching online to students. It is quite difficult task to manage different groups of students as well as managing the various intricacies of online platforms and other resources simultaneously. I am confident that it will just get better and better each week as everyone adjusts to the new routines.

Lastly, the world changes quickly. This global crisis is a great reminder that the world is moving to a more virtual learning and working spaces, and if our students are not able to adapt, they will be left behind. Our teachers are excited about the virtual learning spaces they have created and hope the students take full advantage of it.

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Newsletter Committee

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Dr. D M Patel (Advisor)

Prof. K R Patel

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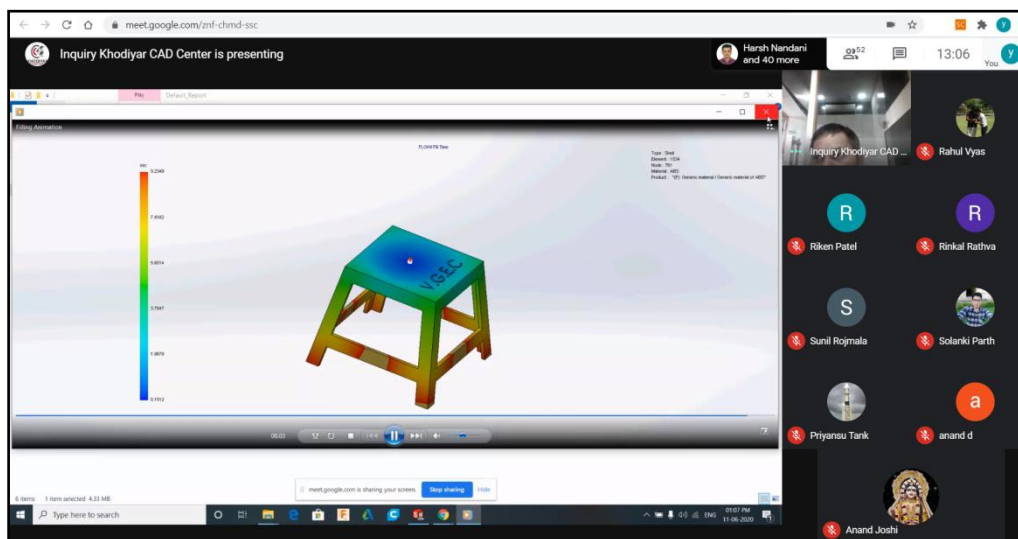
1. Departmental Activities

- ❖ Vishwakarma Jayanti Celebration – As per the tradition this year too department celebrated “Vishwakarma Jayanti” on 07 February, 2020 in Mechanical Workshop. Program started with the Puja of Lord Vishwakarma by Head of the Department Prof. A B Dhruv. All the faculties attended this celebration and prayed for a better future, safe working conditions , smooth functioning of various machines and above all success in their respective fields. Finally, it concluded with light snacks and tea.



Vishwakarma Jayanti Celebration

- ❖ Awareness Seminar on 3d Printing Technology:- A Seminar on topic: 3D printing technology- A technology of future by USI3DT, USA was arranged in Mechanical Engineering Department on 18 February, 2020. This seminar has helped to sensitize the students and faculties in the field of recent development in 3D printing Technology. 60 students of semester VI took benefit of this awareness program.
- ❖ A Webinar on “Revolution in Industries after covid-19 & How design Technology help Engineers in Professional life” was organized on 11 June, 2020 by VGEC Mechanical Department & Khodiyar CAD Center. Total 73 students of Semester 7 participated in Webinar.



Webinar on “Revolution in Industries

2. Industrial Visit

- ❖ Students of Semester III visited INDO-GERMAN TOOL ROOM, Ahmedabad. The visit was organized on 22 January, 2020. All the students enjoyed the visit. The visit was organized with the objective to provide proper insight about how the manufacturing processes are used in development of product and the functionality of these processes at different level. This visit also gave students an opportunity to learn things practically in a real-time functional environment through interactions, witnessing the working methods and clarifying their doubts with experienced workers. There were total 40 students of BE Semester -III along with 2 faculties Prof. M N Parmar and Prof. M M Modan.



An Industrial Visit to INDO-GERMAN TOOL ROOM. Ahmedabad

- ❖ Students of semester III visited Energy Mission Machineries at Vatva, Ahmedabad. The visit was organized on 15 February, 2020. The representative of Energy Mission Machineries gave detailed information about sheet metal processes used in manufacturing unit. They shown all facilities available in their campus. Total 26 students took benefit of this industrial visit. These students were accompanied by Prof. A A Pujara and Prof. M M Modan.



An Industrial Visit to Energy Mission Machineries, Ahmedabad

- ❖ VIII semester students visited Sardar Patel Renewable Energy Research Institute (SPRERI) at Vallabhvidyanagar. The visit was organized on 05 February, 2020. It was a great opportunity for students to develop the awareness on different renewable technologies. These renewable technologies are used for conversion of renewable energy sources in to useful work which can eliminate the dependency on non- renewable sources and thus will reduce the pollution. Projects displayed in open house were worth to understand in order to improve the conversion efficiency of renewable sources. Total 59 students took benefit of this industrial visit. These students were accompanied by Prof. S A Pawar and Prof. S. A Solanki



An Industrial Visit to SPRERI at Vallabhvidyanagar.

3. SAEINDIA Club Activities

❖ BAJA SAEINDIA

DATE: 22 to 26 January, 2020. VENUE: Pithampur- NATRIP, Madhya Pradesh.

The goal in Baja SAE racing is to design, build and race off-road vehicles that can withstand the harshest elements of rough terrain. The vehicles used in Baja SAE racing are often similar in appearance to dune buggies.

Total 20 teams completed endurance race out of 120 teams, in which our team stood on 12th which is great achievement for team which is participating in endurance for 1st time. Also, team achieved 13th rank in Cost Report & 31th in Acceleration. Team had great experience at this event



BAJA SAEINDIA, Pithampur- NATRIP, Madhya Pradesh.

❖ Aravalli Terrain Vehicle Championship

DATE: 15 to 20 February, 2020. VENUE: Panjrapol Ground, Vadodara.

ATVC, Aravalli Terrain Vehicle Championship, is a national level All-Terrain Vehicle designing and racing event. This event has been conducted in association with AICTE (All India Council for Technical Education) and Rajasthan Technical University since last two years at Kota, Rajasthan. The track of ATVC has been regarded as the toughest track in India.

Our team stood overall 6th in Acceleration and 2nd in Gujarat in Acceleration.



Aravalli Terrain Vehicle Championship, Vadodara

❖ TEAM ALBATROSS EVENTS

Aero Design Challenge 2020

DATE: 28 to 30 February, 2020 VENUE: Bannari Amman Institute of Technology, Coimbatore, Tamilnadu, India.

The Aero Design Challenge is a national level Aero-Modeling competition. The purpose of the SAEISS Aero Design Challenge is to promote and develop Indian expertise and experience in unmanned systems technologies at the university and college levels. Team Albatross secured 11th rank all over India in Design Evaluation & 41st Rank in overall.



Aero Design Challenge 2020, Coimbatore, Tamilnadu

4. Research or Publication

| Name of Faculty | Publication of/ journal/ Conference /Book | Title of Publication | Name of Book/ Conference /journal | Type of Publication National/ International | ISSN/ ISBN |
|-----------------|---|---|--|---|---|
| Dr. D M Patel | Publication | Design a new wire cut EDM machine for turning operation | International Journal of Advanced Technology and Engineering Exploration, Vol 6 (53) | International | ISSN (Print): 2394-5443 ISSN (Online): 2394-7454 |

5. Training attended/Expert Lectures Delivered

| Name of Faculty | Topic | Name of the institute | Date |
|---------------------|--|---|------------------------------|
| Prof. T. Y. Rathod | Induction Phase II | NITTR EX, Ahmedabad | 30 Dec, 2019 to 10 Jan, 2020 |
| Prof. K. R. Patel | Promoting Excellence through Industry Institute partnership | NITTTR, Bhopal | 17-21 Feb 2020 |
| Prof. S. A. Solanki | Induction Phase II | NITTR EX, Ahmedabad | 03-14 Feb 2020 |
| Prof A B Dhruv | Teaching in uncertain times: opportunities and challenges | BITS, Vadodara | 30 April-05 May 2020 |
| Prof A B Dhruv | (ATAL) Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR) | SVNIT, Surat | 18-22 May, 2020 |
| Dr. D M Patel | (ATAL) Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR) | SVNIT, Surat | 18-22 May, 2020 |
| Prof A B Dhruv | Online FDP on "Research Methodology Tools and Techniques" | Priyadarshini College of Engineering, Nagpur | 29 May-02 June, 2020 |
| Prof. R P Vyasa | Online FDP on "Research Methodology Tools and Techniques" | Priyadarshini College of Engineering, Nagpur | 29 May-02 June, 2020 |
| Dr. D M Patel | Online FDP on "Advanced Research Challenges in Materials Science" | Shri Vasavi Engineering College, Andhra Pradesh - 534101 | 1-6 June, 2020 |
| Dr. D M Patel | One week online Faculty Development Program on "Product Design & Novelty" Certificate Id : Y9Y0HQ-CE000077 | Dr V. V. Patil College of Engineering Ahmednagar, Maharashtra and The Institution of Engineers (India) | 6-10 June, 2020 |
| Prof A B Dhruv | One week online Faculty Development Program on "Product Design & Novelty" Certificate Id : Y9Y0HQ-CE000077 | Dr V. V. Patil College of Engineering Ahmednagar, Maharashtra and The Institution of Engineers (India) | 6-10 June, 2020 |
| Dr. D M Patel | Online FDP on "Industry 4.0" | Priyadarshini College of Engineering, Nagpur | 9-11 June 2020 |
| Prof A B Dhruv | Online FDP on "Industry 4.0" | Priyadarshini College of Engineering, Nagpur | 9-11 June 2020 |
| Prof A B Dhruv | Two days online Workshop on "Outcome Based Education, NBA Approach " | Department of Mechanical Engineering, Dr Vithalrao Vikhe Patil College of Engineering Ahmednagar, Maharashtra | 11-12 June, 2020 |
| Prof. R P Vyasa | Online FDP on "Optimisation Tools and Techniques for Mechanical Engineers" | Sreenidhi Institute of Science & Technology, Hyderabad | 22-27 June, 2020 |

6. Achiever Section

❖ Students Qualified in GATE-2020 Examination



Meet Panchal
AIR-4173



Dharmik Trivedi
AIR-4173

| Sr. No. | Enrollment No. | Name of the student | GATE Score | AIR |
|---------|----------------|--------------------------------|------------|-------|
| 1 | 170173119014 | Meet Hareshkumar Panchal | 646 | 4173 |
| 2 | 160170119052 | Dharmik Manojkumar Trivedi | 646 | 4173 |
| 3 | 160170119033 | Rajendra Abadeshbhai Prajapati | 626 | 4841 |
| 4 | 170173119004 | Naman Mahendra Bhavsar | 596 | 6127 |
| 5 | 160170119033 | Mayank Bhurabhai Desai | 555 | 8003 |
| 6 | 160170119023 | Chirag Girishbhai Panchal | 499 | 10965 |
| 7 | 160170119008 | Kunal Yashvantbhai Dabholkar | 491 | 11434 |
| 8 | 160170119047 | Shravan Ghisulal Songar | 474 | 12496 |
| 9 | 160170119025 | Jalpan Amishkumar Patel | 467 | 12871 |
| 10 | 160170119051 | Punitsingh Pratapsingh Tomar | 459 | 13411 |
| 11 | 160170119045 | Bhavan Jayeshkumar Sheth | 459 | 13411 |
| 12 | 160170119028 | Nisarg Dineshbhai Patel | 420 | 16093 |
| 13 | 160170119041 | Neel Pankajkumar Shah | 365 | 20449 |

❖ Student Placement Details

| Sr No | EnrollmentNo | Name | Company Name |
|-------|--------------|-------------------------------|--------------------------------------|
| 1 | 160170119002 | Rohit Rajendraprasad Bhardwaj | Cognizant |
| 2 | 160170119008 | Kunal Yashvantbhai Dabholkar | Horizon Microtech Pvt. Ltd. |
| 3 | 160170119018 | Ravi Hareshbhai Koriya | Amrut Energy |
| 4 | 170173119014 | Meet Hareshkumar Panchal | Hitachi HiREL Power Electronics Ltd. |

7. Department Faculty (As on June 2020)

| Sr. No. | Name of Faculty | Designation | Higher Qualification | Teaching Experience |
|---------|----------------------|---------------------|--|---------------------|
| 1 | Prof. A B Dhruv | Professor | Ph.D. (Mechanical) | 25 |
| 2 | Prof. D M Patel | Professor | Ph.D. (Mechanical) | 19 |
| 4 | Prof. R P Vyasa | Associate Professor | M.E. (Mechanical) (CAD/CAM) | 28 |
| 5 | Prof. H A Miskin | Associate professor | ME(CAD CAM) | 22 |
| 7 | Prof. R K Patel | Associate Professor | M.E (Cryogenic) | 19 |
| 8 | Prof. K R Patel | Associate Professor | M.E (IC Auto) | 16 |
| 9 | Prof. A D Brahmbhatt | Assistant Professor | M.E (IC Auto) | 10 |
| 10 | Prof. S A Pawar | Assistant Professor | M.E (Thermal Science) | 12 |
| 11 | Prof. V J Chauhan | Assistant Professor | M.E (IC Auto) | 12 |
| 12 | Prof. J M Joshi | Assistant Professor | M.E (Cryogenics) | 16 |
| 13 | Prof. V K Patel | Assistant Professor | M.E (Machine Design) | 13 |
| 14 | Prof. M N Parmar | Assistant Professor | M.E.(IC/AUTO) | 14 |
| 15 | Prof. D B Patel | Assistant Professor | M.Tech. (Design Engineering) | 8 |
| 16 | Prof. A A Pujara | Assistant Professor | Ph.D. (Mechanical) | 13 |
| 17 | Prof. S B Pipaliya | Assistant Professor | M.TECH. (Thermal Engineering) | 9 |
| 18 | Prof. M M Modan | Assistant Professor | M.E. (CAD/CAM) | 7 |
| 19 | Prof. K T Dodiya | Assistant Professor | M.E. (Mechanical) (Cryogenic) | 9 |
| 20 | Prof T Y Rathod | Assistant Professor | M.E (Machine Design) | 13 |
| 21 | Prof. S A Solanki | Assistant Professor | M.E (Jet Propulsion and Gas Turbine Plant) | 13 |
| 22 | Prof. J B Dabhi | Assistant Professor | M.E (Thermal Engineering) | 8 |
| 23 | Prof. V A Thakar | Assistant Professor | B.E (Production Engineering) | 12 |
| 24 | Prof. J M Parmar | Assistant Professor | M.E (Energy Engineering) | 6 |