

Inside this issue:

| | |
|------------------------|----|
| Students' Achievements | 2 |
| Department Activities | 3 |
| Academic Achievers | 7 |
| Placement details | 8 |
| Industrial visit | 9 |
| From Student | 11 |
| From Faculty | 12 |
| From Alumnae | 13 |

MECHANICAL ENGINEERING DEPARTMENT

From Department Head

It is pleasure to release the 1st issue of volume 08 of the Department Newsletter. The department took initiative to publish newsletter at the end of every semester containing some important information and major achievements during respective semester. Accordingly the endeavour kick-started in the year 2015/16 and issue 1 was made available on GCET website. Today we all are happy to put up issue 1 of volume 08 containing details of odd semester of academic year 2022/23.



Dr. Darshak Desai
Professor & Head
M E Department

Editor's Note

Aristotle said "Knowing yourself is the beginning of all wisdom". With this very positive thought of learning-self, the fist issue of current academic year is being presented to the readers. It makes me much happy to inform you regarding the Patent approval by govt. of India, of one of our student and a very good placements post-covid scenario. During this semester also various training programs, talks and visits were organised for the all-round development of the students.



Prof. Aakarsh Jain
Assistant Professor
M E Department

Student Editorial Team



Vandan Joshi
(Third year ME)



Jiren Pandya
(Third year ME)




Meet Patel
(Second year ME)

Students' achievements




*"Either write
something worth
reading or do
something worth
writing"*

*- Benjamin
Franklin*




भारत सरकार
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THE PATENT OFFICE



सत्यमेव जयते

ORIGINAL

मूल/No : 126478



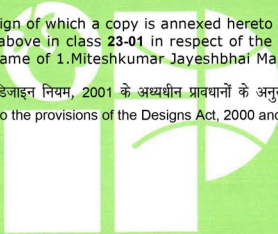
भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

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|---------------------------------------|------------|
| डिजाइन सं. / Design No. | 357335-001 |
| तारीख / Date | 26/01/2022 |
| पारस्परिकता तारीख / Reciprocity Date* | : |
| देश / Country | : |

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **WATER FAUCET** से संबंधित है, का पंजीकरण, श्रेणी **23-01** में 1.Miteshkumar Jayeshbhai Maru 2. Vishnubhai Makvana के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

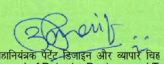
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **23-01** in respect of the application of such design to **WATER FAUCET** in the name of 1.Miteshkumar Jayeshbhai Maru 2. Vishnubhai Makvana.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

निर्गमन की तारीख/Date of Issue : 20/01/2023



महानिरीक्षक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (अदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अर्धेन, पांच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।
*The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

Final year student Mr. Mitesh Maru has successfully granted a patent for his design of 'Water Faucet' by The patent office of Government of India; under the guidance of Prof. Jvalant Trivedi, Prof. Sankalp Kulkarni and Prof. Aakarsh Jain. And for his design he has received a certificate of registration of design and has been granted a design number for his design.

Department Activities

A Talk & discussion on ‘what after BE ?’

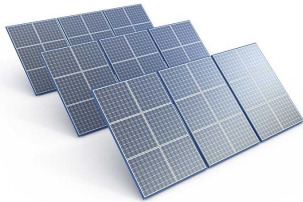


It is a known fact that mechanical engineering is an evergreen branch of engineering and there are various fields that can be explored after under graduation. So to answer the questions and to give insight about the fields that can be explored post B.E., GCET ISTE student chapter had organized an expert talk on “What after B.E?” For 3rd year mechanical engineering students. The honorable speaker for the event was Dr. Darshak Desai, HOD Mechanical Engineering Department, GCET. The talk went with an audio-visual medium which could penetrate directly to the young minds. Dr. Darshak Desai presented a power point presentation, through which he elaborated about different types of industries like Small scale industries, Medium scale industries and Public sector undertakings and options for higher studies in MTech or Management. He also suggested to focus on some prestigious institutes of India and spread light about admission processes for the same.

“The courage to continue is what distinguishes success from failure.”

-Winston Churchill

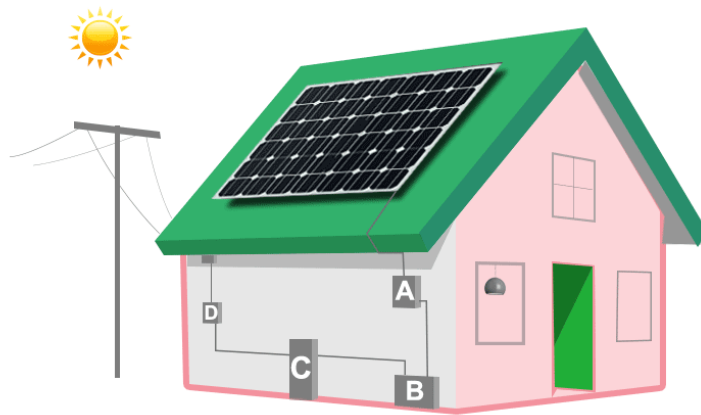
An Expert Talk on 'Photovoltaic System'



"Nothing is particularly hard if you break it down into small jobs."

- Henry Ford

An Expert Talk by Mr. Asim Joshi , Senior Scientist & Head of Solar Division, Sardar Patel Renewable Energy Research Institute (SPRERI) on topic "Photovoltaic System" was organised for third year Mechanical students studying elective course "Alternate Energy Sources". 15 students took advantage of the session. The speaker talked about the design of photovoltaic system, new material for PV cells etc. in detail. After the talk there was a Q & A session in which students could clear their doubts.



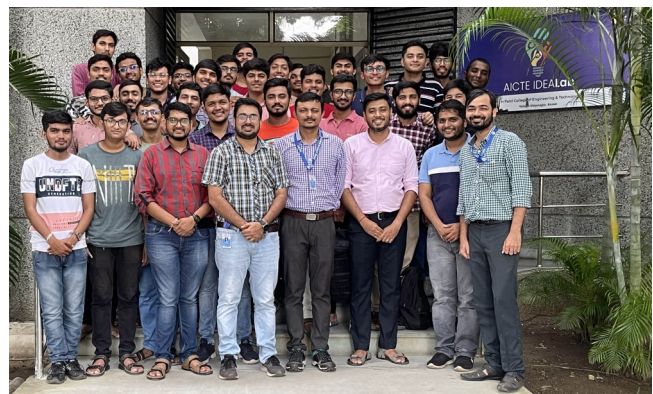
कौशल्यम् - २



AICTE IDEA Lab has organized KAUSHALYAM-2 to motivate students of 3rd year of mechanical branch of college to learn about 3D printers and CO2 laser cutter and engraver by introducing them to LUBAN SNAPMAKER & Z-SUIT ZORTAX software. The goal was to make the students familiar with software and the machine so that they can make different design from it and also to give them Hand-on experience. The students learnt about the basics of both the software and learn how 3D printer and CO2 laser cutter machines works.

"To Succeed in your mission you must have single-minded devotion to your goal"

- A P J Abdul Kalam



कौशल्यम् - ३

"You can't edit a blank page"

- Jodi Picoult



AICTE IDEA Lab had organized KAUSHALYAM-3, under which hands on training were provided to the students and the faculties on CNC wood router machine. The training was initially provided on the ARTCAM for preparing a design to be engraved and generate command codes for the machine. Later there was hand-on exercise on the wood router machine.



Other activities under IDEALab

Students of Mechanical engineering have utilized the IDEALab to its maximum possible horizons. The students team has worked upon various projects, memento preparation for various events, training the peers and juniors on various equipment of IDEALab like Sublimation printer, 3D printer, Co2 laser cutter and others.



Academic Achievers



Siddharajsinh Thakor
Semester 7
SPI - 8.71



Vineshkumar Vasava
Semester 5
SPI - 9



Devanshu Ramani
Semester 3
SPI - 9.09



Jay Pattni
Semester I
SPI - 7.74

“If everybody is doing it one way, there's a good chance you can find your niche by going exactly in the opposite direction.”

- Sam Walton

Placement details

*"Keep your eyes
on the stars and
feet on the
ground"*

*- Theodore
Roosevelt*

| Total no. of company visited | Total no. of students placed |
|---------------------------------|---------------------------------|
| 20 | 48 |

Some Eminent Recruiters



Godrej & Boyce Mfg. Co. Ltd.



Industrial visits

An Industrial Visit to Ritesh Engineering



An industrial visit to "Ritesh Engineering" was organized by the mechanical engineering department for third year students on 09th August 2022. Total 43 students participated in the visit. Ritesh Engineering is a Manufacturer of Heat Exchangers, Pressure Vessels and other mechanical equipment through various manufacturing processes located in Vithal Udyog Nagar Anand.

An Industrial visit to Inducto Cast

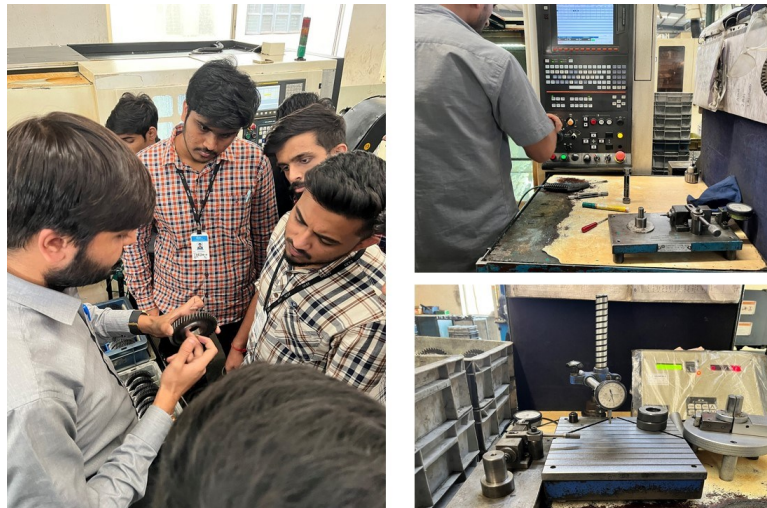


An industrial visit to "Inducto Cast" was organized by the mechanical engineering department for third year students on 09th August 2022. Total 43 students participated in the visit. Inducto Cast is a Manufacturer of CI Casting, Cast Iron Castings, SG Casting and SG Iron located in Vithal Udyog Nagar Anand.

"You can make a lot of mistakes and still recover if you run an efficient operation. Or you can be brilliant and still go out of business if you're too inefficient. "

- Sam Walton

An Industrial Visit to Bhavani Industries India LLP



*“The world is
changed by your
example,
not by your
opinion.”*

- Paulo Coelho

An industrial visit to "Bhavani Industries India LLP" was organized by the mechanical engineering department for third year students on 20th August 2022. Total 32 students participated in the visit. Bhavani Industries India LLP is a market leader in supplies of critical synchronizer components to automobile industries located in Sanand, Gujarat, India.

An Industrial Visit to SPRERI



Third Year Mechanical students of visited Sardar Patel Renewable Energy Research Institute on 10th November 2022. Prof. Sankalp Kulkarni accompanied the students. SPRERI is a recognized as a Scientific and Industrial Research Organization (SIRO) by the Department of Science & Technology, Govt. of India.

From Student

Blog on Science of Ancient India

Sanatan science is a term used to describe the scientific knowledge that is believed to have existed in ancient India. This knowledge is said to have been passed down from generation to generation through oral tradition and written texts, and it covers a wide range of subjects, including astronomy, mathematics, medicine, metallurgy, architecture, and more. The term "Sanatan" refers to the Sanskrit word "Sanatana," which means eternal or timeless. This suggests that the knowledge of Sanatan science is not limited by time or space and can be applied to any era or location. One of the most well-known examples of Sanatan science is in the field of astronomy. Ancient Indian astronomers were able to accurately calculate the movements of celestial bodies and predict astronomical events such as eclipses. They also developed sophisticated instruments to measure time and track the movement of the stars. Another area of Sanatan science is mathematics. The concept of zero, which is considered one of the most important discoveries in mathematics, is believed to have originated in India. Indian mathematicians also developed advanced algorithms and formulas for solving complex equations.

In the field of medicine, Sanatan science includes a system of traditional healing known as Ayurveda. Ayurveda is based on the principle of balancing the body's natural energies, known as doshas, through diet, lifestyle, and herbal remedies. This system of medicine is still practiced today and is gaining popularity in many parts of the world. Sanatan science also includes the development of metallurgy and architecture. Ancient Indian craftsmen were able to create intricate sculptures and buildings using advanced techniques in metallurgy and architecture. The knowledge of Sanatan science is preserved in ancient texts such as the Vedas, Upanishads, and Puranas. These texts provide detailed descriptions of scientific principles and their practical applications.

However, the authenticity and accuracy of Sanatan science are still debated by scholars. Some argue that many of the claims made about the scientific knowledge of ancient India are exaggerated or unfounded. Others believe that there is still much to learn from the wisdom of Sanatan science and that it has the potential to contribute to modern scientific knowledge.

In conclusion, Sanatan science is a fascinating field of study that offers a unique perspective on the scientific knowledge of ancient India. While its authenticity and accuracy are still debated, it is clear that the knowledge of Sanatan science has had a significant impact on the development of many fields of study and has left a lasting legacy that continues to influence our understanding of the world today.



Vandan Joshi
(3rd year ME)

From Faculty

Recruitment Fun

The source is anonymous from internet with bit presentable treatment by me. This is just a lighter side of corporate recruitment fun with no intentions to impair anybody.

HOW TO RECRUIT THE RIGHT PERSON FOR THE JOB?

Put about 100 bricks in some particular order in a closed room with an open window. Then send 2 or 3 candidates in the room and close the door. Leave them alone and come back after 6 hours and then analyze the situation....



Dr. Darshak Desai
(Professor & Head - ME)

| | | |
|---|----------------------|------------------------|
| If they are counting the bricks... | <i>put them in</i> → | Accounts Department |
| If they are recounting them... | | Auditing |
| If they have messed up the whole place with the bricks... | | Engineering |
| If they are arranging the bricks in some strange order... | | Planning |
| If they are throwing the bricks at each other... | | Operations |
| If they are sleeping... | | Security |
| If they have broken the bricks in to pieces... | | Information Technology |
| If they are sitting idle... | | Human Resources |
| If they say they have tried different combinations, yet not a brick has been moved... | | Sales |
| If they have already left for the day... | | Marketing |
| If they are staring out of the window... | | Strategic Planning |

If they are talking to each other and not a single brick has been moved

→ **Congratulations.....**

↓

You have got the top management team!!!

From Alumnae



Mr. Chirag Kanagiyani
Technology Engineer-Core Technologies,
Atlas Copco (Pune)
BE Mechanical Engineering
(2017-2020)

Hi, I am Chirag, currently working in R&D department of Atlas Copco, in Model Based Engineering department, for mathematical modeling & Copcept-to-Product development of new range of compressors/vacuum pumps for brands within Atlas Copco group.

It's been a wonderful journey as a D2D student at GCET from the first day itself. Staff here is very much supportive, whether it is clearing a curriculum related doubts or taking support for co-curricular activities they always have been ready to guide. With their support only I was able to publish 4 research papers, 10 Patents, and 2 books during my student tenure.

GCET is equipped with a very active SSIP cell who always encourages innovation & entrepreneurship spirit. While the placement cell have played a vital role in start of my professional journey, so do for many of us. Also, the non-curricular activities and cultural events have helped me hone my networking skills & created memories which I will cherish throughout my life.