

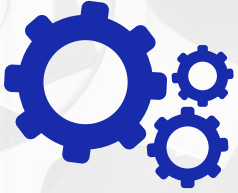


V.V.P.

ENGINEERING COLLEGE

AICTE Approved & Affiliated to GTU, Ahmedabad

MECHANICAL ENGINEERING DEPARTMENT



January - June
2022

MESSAGE FROM CHAIRMAN, GOVERNING BODY



SHRI LALITBHAI MEHTA

- Systematic scientific knowledge need to be utilized for holistic development of mankind, while keeping in view the traditions, culture, values of life and philosophy of the nation. In the world of emerging technologies, Vyavasayi Vidya Pratishthan is a major leap in the direction of contributing as an excellent technological institution to this country.
- Globalization, privatization and liberalization throw every day new challenges which can be solved by the highest degree of technical knowledge, skill, expertise and sharp intellect. We, at V.V.P Engineering College are committed to shape the aspirants into the world class professionals in the fields of engineering and architecture, who would not only be ready to take up the challenges of the material world but also commit to “Krinavanto Vishwam Aryam”.

MESSAGE FROM PRINCIPAL



DR. JAYESH DESHKAR

- Welcome to V.V.P. Engineering College, a world class center for excellence in technical education. We are a leading technological institute of India, a home to a wide range of academic departments, providing best education in the major areas of technology and services in the area of research and consultancy.
- We are proud and distinct through our global technical perspective, cosmopolitan character and being deeply rooted in the high Indian traditional culture, heritage and values.
- You would enjoy the challenges and opportunities we offer. We look forwards to welcoming the engineering aspirants to a place of genuine intellectual excellence for an unforgettable simulating experience in the world of existing and emerging technologies, Welcome back to Future....

V.V.P ENGINEERING COLLEGE

VISION

- To be an exemplary institute, transforming students into competent professionals with human values.

MISSION

- To provide a conducive academic environment for strengthening technical capabilities of the students.
- To strengthen linkages with industries, alumni and professional bodies.
- To organize various co-curricular and extra-curricular activities for overall development of the students.
- To practice good governance and conduct value- based activities for making students responsible citizens.



MESSAGE FROM HEAD OF THE DEPARTMENT



DR. NIRAV MANIAR

- Established in 1996 Mechanical Engineering Department is the oldest branch in VVP Engineering College. It is also one of the biggest departments of the institute with a student strength of about 480. While managing this strength, the department is committed to the well-being and all-around development of its students. The objective of the undergraduate program is to prepare the manpower that is globally best. Most of the students, who graduate from the department, end up taking leading positions in industry, academia, and government in both India and abroad.
- The department has a faculty strength of 19 of which 4 faculties hold a doctorate and 3 faculties are pursuing their doctorate from reputed universities. Needless to say, every faculty hold a master's degree. Department has a technical staff of 10 who are associated with 31 exclusive laboratories like fluid mechanics and fluid power, dynamics of machinery, material science, thermal, refrigeration and air-conditioning CIM, and many more. Department also houses an institute central facility on Robotics, 3D printing, and CNC Mill Trainer.

- The department is very well equipped with computational facilities and resources both in terms of hardware and software. Department has more than 72 computing systems and workstations loaded with a wide range of software products covering all areas of mechanical engineering. A special energy audit cell is established by the department wherein faculties and technical staff provide auditing services across the spread of industries.
- The department has evolved to keep up with the ever-increasing challenges in technology development while maintaining a strong base in the fundamental aspects of Mechanical Engineering. While much of today's research in Mechanical Engineering is interdisciplinary requiring knowledge from numerous other science and engineering disciplines, the expertise of the faculty members of the department is categorized into three broad streams i.e. Thermal and fluids engineering, Design engineering, and Manufacturing/production technology.
- The Mechanical Engineering Department of VVP Engineering College is committed to extracting the underlying talent of future aspirants and believes in transforming students into professionally competent and socially sensitive Mechanical Engineers with human values.

MECHANICAL ENGINEERING DEPARTMENT

VISION

- To transform students into professionally competent and socially sensitive Mechanical Engineers with human values.

MISSION

- To provide an excellent academic environment to impart professional expertise in students.
- To organize curricular, co-curricular and extracurricular activities for students in collaboration with industry, alumni and professional bodies.
- To nurture and maintain conducive environment for ethics-based practice and imbibe human values.

PROGRAM EDUCATIONAL OBJECTIVES

Mechanical Engineering graduates will be able to :

- Apply mechanical engineering concepts to work in professional fields.
- Acquire leadership position in different organization
- Provide sustainable solutions in multidisciplinary environment.

PROGRAM SPECIFIC OUTCOMES

Mechanical Engineering graduates will be able to :

- Apply mechanical engineering knowledge to analyze & solve the problems related to mechanical design, manufacturing & thermal engineering.
- Utilize technical & managerial skills in multidisciplinary environment to meet the needs of stakeholders.

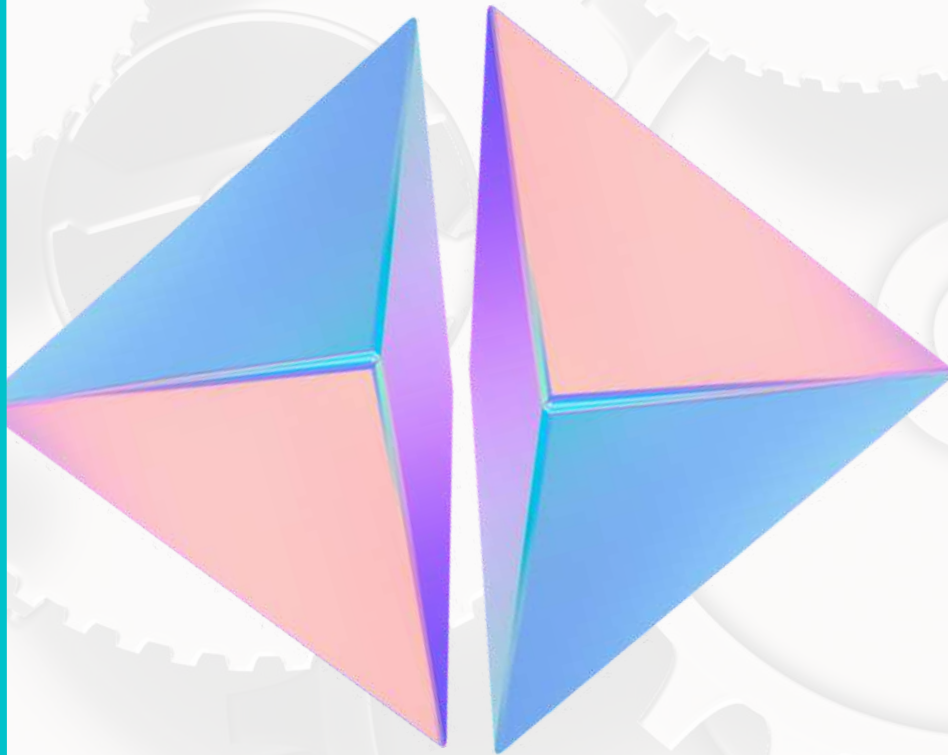
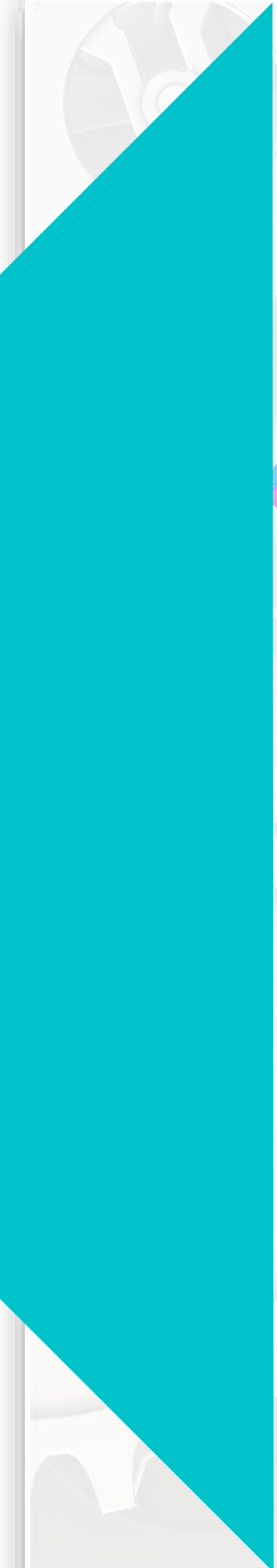
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EDITORIAL BOARD

- DR. NIRAV MANIAR
- PROF. NIRAV MEGHPARA
- SHRI PARAS MODI

• KHUSH KANERIA

• SHIVAM JOSHI



GLIMPSES OF PLACEMENT

CONGRATULATIONS



**Dhransotia
Mayank**



**RELIANCE
INDUSTRIES**

7.50 LPA

CONGRATULATIONS



**Joshi
Aum**



**RELIANCE
INDUSTRIES**

7.50 LPA

CONGRATULATIONS



**Sakhareliya
Rajnish**



**WIPRO
LIMITED**

3.50 LPA

CONGRATULATIONS



**Fataniya
Bhautik**



**MAHINDRA
CIA AUTOMOTIVE**

3.50 LPA

CONGRATULATIONS



**Trada
Rakshit**



**GRIPSON
MAHAVIR**

2.40 LPA

CONGRATULATIONS

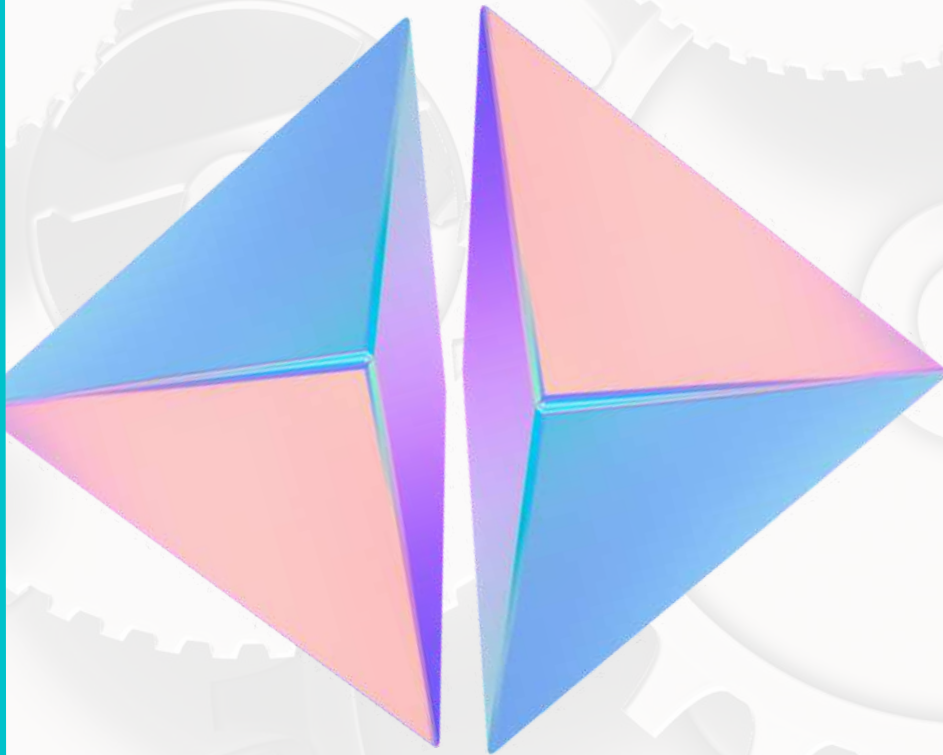


**Chauhan
Keyur**



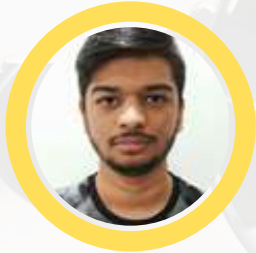
**NIRMA
LIMITED**

2.40 LPA



1ST SEMESTER - GTU RESULT
TOP 5 STUDENTS

1st



**DUDHAT
DHYEY
9.24/10 SPI**

2nd



**NADAPARA
MILIND
8.94/10 SPI**

3rd



**KHANPARA
PREET
8.82/10 SPI**

4th



**BHADESHIYA
KIRTAN
8.41/10 SPI**

4th



**KHUNT
JAY
8.41/10 SPI**

5th



**JINJUWADIA
SMIT
8.18/10 SPI**

3RD SEMESTER - GTU RESULT
TOP 5 STUDENTS

1st



**DARSHAN
HARSORA
9.09/10 SPI**

2nd



**VIVEK
RATHOD
8.70/10 SPI**

3rd



**YASH
GORECHA
8.48/10 SPI**

3rd



**AKSHAR
BHANDERI
8.48/10 SPI**

4th



**RAHUL
SARVAIYA
8.43/10 SPI**

5th



**DEVEN
KACHROLA
8.39/10 SPI**

5TH SEMESTER - GTU RESULT
TOP 5 STUDENTS

1st



**KHERADIYA
HARSH
9.35/10 SPI**

2nd



**MALAVIYA
DHRUVIL
9.22/10 SPI**

3rd



**ZINZUVADIYA
KALPESHI
8.61/10 SPI**

4th



**UNAGAR
SAGAR
8.30/10 SPI**

5th



**VAGHELA
PRANAV
8.26/10 SPI**

7TH SEMESTER - GTU RESULT
TOP 5 STUDENTS

1st



**JANI
AKSHAT
9.29/10 SPI**

2nd



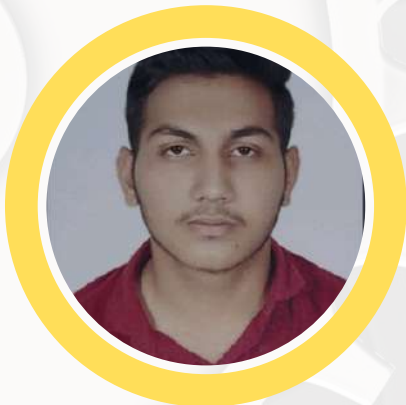
**CHAUHAN
KEYUR
9.13/10 SPI**

3rd



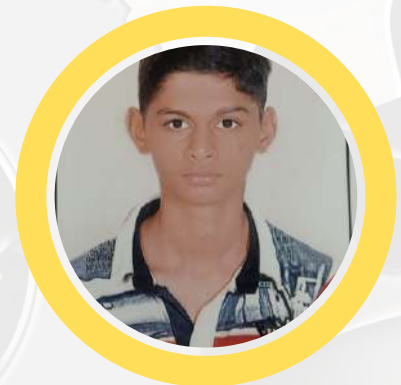
**DOSHI
HARSH
8.96/10 SPI**

4th



**SAVALIYA
ARJUN
8.83/10 SPI**

5th



**SAKHARELIYA
RAJNISH
8.79/10 SPI**

8TH SEMESTER - GTU RESULT
TOP 5 STUDENTS

1st



**SAKHARELIYA
RAJNISH
10/10 SPI
9.23/10 CPI**

2nd



**JANI
AKSHAT
10/10 SPI
9.17/10 CPI**

3rd



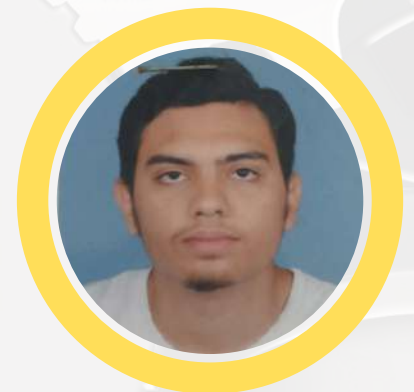
**GHORECHA
MEET
10/10 SPI
8.99/10 CPI**

4th



**GHADHIYA
JENISH
10/10 SPI
8.93/10 CPI**

5th



**VYAS
SHREY
10/10 SPI
8.81/10 CPI**



DEPARTMENTAL ACTIVITIES



SURYANAMASKAR COMPETITION



Suryanamaskar


**CONGRATULATION TO SECURE
2ND RANK
IN COLLEGE LEVEL SURYANAMASKAR
COMPETITION**

RAVAT MAHESH
SECOND YEAR STUDENT
MECHANICAL ENGINEERING
DEPARTMENT



19, JANUARY 2022


V.V.P. ENGINEERING COLLEGE




SURYANAMASKAR

**CONGRATULATION TO SECURE
2ND RANK
IN COLLEGE LEVEL SURYANAMASKAR
COMPETITION**

PROF. SANKET PANDYA
ASSISTANT PROFESSOR
MECHANICAL ENGINEERING
DEPARTMENT



19, JANUARY 2022
V.V.P. ENGINEERING COLLEGE



★ **19 JANUARY 2022** ★

SURYANAMASKAR

Competition/Challenge-2022



**PARTICIPANT STUDENTS & STAFF COLLEGE LEVEL
SURYANAMASKAR COMPETITION
MECHANICAL ENGINEERING DEPARTMENT**

PROF. SANKET PANDYA

**RAVAT MAHESH
VATALIYA NANDANI
KANSAGARA ANAND**

V.V.P. ENGINEERING COLLEGE



V. V. P. Engineering College, Rajkot
Mechanical Engineering Department

Congratulations!

Placements
Batch 2022

Students
placed in



Omnitech
Engineering



Bhavik Manek



Param Rajpara



Jeel Tank



Heena Kureshi



Viral Rathod



Raj Bagthariya



Raju Kantariya

Pin to Plane,
Logical & Digital;
Forever It's Mechanical



V. V. P. Engineering College, Rajkot
Mechanical Engineering Department

Congratulations!

Placements
Batch 2022

Students
placed in



Jay Jalaram
Industries

Naimish
Vadgama



Darshit
Vadgama



Karan
Parmar



Kotecha
Ghanshyam



Pin to Plane,
Logical & Digital;
Forever It's Mechanical



V. V. P. Engineering College

**MECHANICAL
ENGINEERING DEPARTMENT**

#Placement_2022



Maulik
Chauhan



Aman
Bhatt



Utsav
Busa

CONGRATULATIONS FOR
SELECTION IN



Rajoo Engineers Ltd.

Pin to Plane,
Logical & Digital;
Forever It's Mechanical

Career Counseling



V. V. P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT

CAREER COUNSELING SEMINAR BY DR. NIRAV P. MANIAR
NEW ERA SCHOOL - RAJKOT, Std 12 – A & B group students
January 31, 2022



Silver Jubilee Souvenir

V.V.P. Engineering College- Rajkot
Mechanical Engineering Department
SILVER JUBILEE SOUVENIR (SMRUTI MANJUSHA)
COMPLIMENT TO INDUSTRIALISTS



GAUTAM TECHNOCAST **JYOTI CNC AUTOMATION** **SATYAY TECHNOCAST**


OMNITECH ENGG. PVT.LTD. **E. P. P. COMPOSITES PVT. LTD.** **ORBIT BEARING PVT.LTD.** **PELICAN ROTOFLEX PVT. LTD.**

RAVI METAL TREATMENT **SUNFORGE PVT.LTD.** **MINIMATIC MACHINES** **MACPOWER CNC**

Pin to Plane..... Logical & Digital..... Forever It's Mechanical

V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT

Glorious journey of 25 Years Souvenir - Smruti Manjusha Distribution



**Pin to Plane;
 Logical & Digital;
 Forever it's Mechanical.**

Viswarkarma Jayanti Celebration



14/02/2022

V.V.P. Engineering College, Rajkot
Mechanical Engineering Department
Viswarkarma Jayanti Celebration in Press



વીવીપી કોલેજમાં વિશ્વકર્મા જયંતિની ઉજવણી

પ્રભુ વિશ્વકર્મા, ઓજારો તથા મશીનનું પૂજન વીવીપીના સ્ટાફ દ્વારા કરાયું

વશીષ્ઠ: ઉચ્ચ શિક્ષણ સાથે ઉચ્ચ સંસ્કારોનું લિંગન કરતો વી.વી.પી. ઈજનેરી કોલેજમાં વિશ્વકર્મા જયંતિની આયોજીત ઉજવણી કરવામાં આવી હતી. આ પ્રસંગે મીડીયલ વિભાગનાં વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

વીવીપીમાં વિશ્વકર્મા જયંતિની ભાવભેર ઉજવણી

આજના આજીવન-સમૃદ્ધિ સેવકો ઉપરોક્ત કાર્યોમાં સહભાગી રહ્યાં છે. આ પ્રસંગે મીડીયલ વિભાગના વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

Aajkal 16/2/22

વી.વી.પી.કોલેજ દ્વારા પ્રભુ વિશ્વકર્મા, ઓજારો તથા મશીનનું પૂજન કરાયું

આજના આજીવન-સમૃદ્ધિ સેવકો ઉપરોક્ત કાર્યોમાં સહભાગી રહ્યાં છે. આ પ્રસંગે મીડીયલ વિભાગના વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

Abtak 15/2/22

Azad Sandesh 16/2/22

એન્જિનિયરિંગના આરાધ્ય દેવ એટલે પ્રભુ વિશ્વકર્મા

વી.વી.પી. ઈજનેરી કોલેજમાં મીડીયલ વિભાગના વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

Gujarat Mirror 15/2/22

વી.વી.પી. ઈજનેરી કોલેજમાં વિશ્વકર્મા જયંતિની ભાવભેર ઉજવણી

આજના આજીવન-સમૃદ્ધિ સેવકો ઉપરોક્ત કાર્યોમાં સહભાગી રહ્યાં છે. આ પ્રસંગે મીડીયલ વિભાગના વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

Sanj Samachar 15/2/22

વી.વી.પી.માં વિશ્વકર્મા જયંતિની ભાવભેર ઉજવણી

આજના આજીવન-સમૃદ્ધિ સેવકો ઉપરોક્ત કાર્યોમાં સહભાગી રહ્યાં છે. આ પ્રસંગે મીડીયલ વિભાગના વહીવટી અને ભવનના વિષયકર્મીનું પૂજન સાથે વર્કશોપના તમામ ઈન્સ્ટ્રુમેન્ટ, સી.એન.સી., વી.એમ.સી. મશીન તેમજ વહીવટીઓ તથા કમ્પ્યુટરના અભ્યાસીઓના જયંતિમાં જોડાયાં. વી.વી.પી. ઈજનેરી કોલેજના મીડીયલ વિભાગના વહીવટી દ્વારા શુભ મુહૂર્તમાં આ ઓજારો તેમજ

Saurashtra Kranti 15/2/22

Pin to Plane; Logical & Digital; Forever it's Mechanical.

School Visit For Career Guidance



V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT




GUIDANCE SEMINAR FOR STD 12th STUDENTS
NAVYUG SCIENCE SCHOOL, MORBI
DATE: 14/02/2022




EXPERT: DR. R.V.RAMANI

Technical Workshop

 **V. V. P. ENGINEERING COLLEGE, RAJKOT**
MECHANICAL ENGINEERING DEPARTMENT

One Day Hands on Work shop on "I.C. Engine- Complete Assembly and Disassembly" At Sir Bhavsinhji Polytechnic, Bhavnagar. – Dt. 22.03.2022



Pin to Plane
Logical & Digital
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 **V. V. P. ENGINEERING COLLEGE, RAJKOT**
MECHANICAL ENGINEERING DEPARTMENT

One Day Hands on Work shop on "I.C. Engine- Complete Assembly and Disassembly" At Government Polytechnic, Jamnagar.
Dt. 24.03.2022



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Technical Workshop

વી.વી.પી. ના મિકેનિકલ વિભાગ દ્વારા ગુજકોસ્ટ સ્પોન્સર્ડ બે દિવસીય વર્કશોપનું આયોજન કરાયું



વી.વી.પી. ઈજનેરી કોલેજના મિકેનિકલ વિભાગ દ્વારા કોમ્પ્યુટેશનલ મોડેલીંગ ઓફ સેન્ટ્રીફ્યુગલ એન્ડ એક્સીઅલ ફ્લો કમ્પ્રેસર ઈન આન્સીસ વિષય પર બે દિવસીય વર્કશોપનું આયોજન કરવામાં આવ્યું હતું. વી.વી.પી.નાં મિકેનિકલ વિભાગના છઠા સેમેસ્ટરના વિદ્યાર્થીઓ માટે આયોજીત આ વર્કશોપમાં કાવ્યમ એનજીના પ્રો. વિનલ વિરાણીએ વિદ્યાર્થીઓને સી.એફ.ડી. (કોમ્પ્યુટેશનલ ફ્લુઈડ ડાયનેમીક્સ) ની મદદથી સેન્ટ્રીફ્યુગલ એન્ડ એક્સીઅલ ફ્લો કમ્પ્રેસરના લાઈવ ઉદાહરણો દ્વારા પ્રાબ્લેમ એનાલીસીસ અને સોલ્વીંગ શીખવાડ્યું હતું.

Technical Workshop



V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT



Parents Meeting

Semester: 6th

Date: April 20, 2022

Wednesday

Time: 10.00 am onwards

Venue: PDC Auditorium

V.V.P. ENGINEERING COLLEGE, RAJKOT

World Books Day celebration



V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT
World Book Day Celebration, 23 April 2022



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Webinar for D TO D students

Mechanical Engineering Department

LIVE WEBINAR

After Diploma: Degree or Job ?

FRIDAY | JUNE 24 | 10:30 am



Dr. Jayesh Deshkar
Experience : 30 Years



Dr. Nirav Maniar
Experience : 22 Years

Do you have questions, get true & honest answers :

- Selection of College & University ?
- Opportunities of Government Job, Job in multi-national companies, Business ?
- Different Scholarships ? ● ACPC choice filling & Career Guidance

40 Minutes of webinar, 3 Years of Engineering Education, 40 Years of Life



V.V.P.
ENGINEERING COLLEGE

youtube link : <https://tinyurl.com/d2dmechvvp>

Website : www.vvpedulink.ac.in

For Queries, Please Contact: Dr. R. V. Ramani - 99251 26041

Internship/Project & Pre-Placement activity

Activity Name: Internship/Project & Pre-Placement activity

Activity Type: Information Lecture

Level of event: College

Date: 31/12/21

Semester: 7th

Division: Ax and Ay

Number of Students: 125

Expert Name with Designation: Nirav Meghpara (Assistant Professor) & Jiten Makadia (Assistant Professor)

Faculty / staff Coordinator Name: Nirav Meghpara & Jiten Makadia

Objectives of Event: To make students aware about guideline of Internship/Project and Placement

Brief about event: As per updated syllabus, GTU has introduced internship activity in final year syllabus. Henceforth for providing information about Internship/Project and placement a session was organized to discuss the formalities of internship and subsequent placement.

Outcomes of an event: Students got information about process and documentation of Internship/Project. Students got information about placement and selection of job profile.



Introduction about Non Traditional machine process

Activity Name: Introduction about Non Traditional machine process

Activity Type: Expert Lecture

Level of event : College

Date: 06-01-22

Semester: 6th AY

Number of Students: 13

Expert Name with Designation: Parth V. Delvadiya (Assistant Professor)

Objectives of Event: Introduce different non tradition machining process used in industrial filed

Brief about event: Provide knowledge related NCM and its Processes

Outcomes of an event:

1. Summarize the needs and classification of unconventional machining process.
2. Understand the various input and output parameters that influence in the performance.
3. Explain the working principle of energy based machining process.
4. Identify the electric discharge machining and wire cut electric discharge machining process.



V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT

Expert Lecture
On
Introduction About Non Traditional Machine Process
Thursday, January 06, 2022
at 12:00 p.m. to 1:00 p.m.
Semester : 6th AY

Speaker
Prof. Parth Delvadiya
B.Tech.(Mechanical)
M.E.(Production)

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The poster features a blue background with a globe icon, a speaker photo, and a diagram of non-traditional machining processes.



Poster Presentation

Activity Name: Poster Presentation

Activity Type: Technical Event

Level of event : Institute

Date: 10th January 2022

Semester: 1st

Number of Students: 17

Faculty / staff Coordinator Name: Prof. Hardik A. Khunt

Objectives of Event: To nurture technical and verbal ability of students.

Brief about event: Poster Presentation competition held by Mechanical Engineering Department of V.V.P. Engineering College on 10th January 2022 with 2 experienced judges they are: 1. Dr. J. J. Makadia 2. Prof. S. Y. Yagnik

Outcomes of an event: It is a good way to enhance the creativity and clarity of one's idea. Participants can enhance their presentation



Seva Din/ Seva Diwas

Activity Name: Seva Din/ Seva Diwas

Activity Type: Charity Work

Level of event : Regional

Date: 14-01-22

Semester: NA

Division: NA

Number of Participants: 17 staff members

Objectives of Event: To encourage others to do charity work for welfare of animals especially cows on the auspicious occasion of Uttarayan.

Brief about event: Staff from the Mechanical Engineering Department had set up a counter at KKV Chowk, Rajkot on behalf of Shri Vankaner Panjrapole and Gaushala which takes care of many cows and treats various injuries/diseases with the help of veterinary doctors. Passer by people were explained the religious and mythological importance of donation on the day of Uttarayan and hence all those people became small part of the good that will be done for the cows and stray animals in need.

Outcomes of the event: Awareness was spread among people regarding the importance Daan (donation) on the day of Uttarayan. Everyone involved in the task felt happy and contented from inside as they became the part of such an august dee



Research paper awareness and reading program

Activity Name : Research paper awareness and reading program for the first-year students

Expert Name : Prof.Pooja Ghodasara,Prof.Nirav Meghpara and Prof.Jasmin Bhimani

Designation : Assistant Professor, VVPEED

Date & Time : 19-01-2022, 10 AM to 11.50 AM

Semester : 4th

Student Participants 55

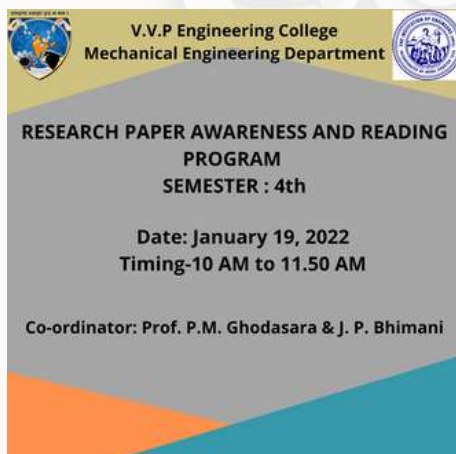
Activity Report

Research paper awareness and writing program is a unique program run by VVP engineering college. This program was intended to create awareness in the first-year students for the field of research. 13 Students of first semester Electrical Engineering were divided in 6 groups.

Research and Review papers of Solar Energy, Batteries, Solid Waste Management, IoT, Touch Screen, Wind Energy were given for reading. Students in a group of 2 or 3, read one paper. A short summary for the paper was also written by student groups on the research or review paper they got.

Outcome of the Activity

Students learnt difference between review and a research, types and domain of research papers, structure of a research paper and terminology used in a research paper. They also learnt working in a group and report writing.



Skill Development & Hands on One Day Workshop

Activity Name: Advance Manufacturing Processes

Activity Type: Skill Development & Hands on One Day Workshop

In association with GTU or ISTE or any other body: Sathway Associates LLP

Level of event : College

Date: 22/01/2022

Semester: 6th Ax+Ay

Number of Students: 59

Expert Name with Designation: Mr.Satyajeet Zala, Sr. Trainer

Faculty / staff Coordinator Name: Mr. Sahil Yagnik, Mr. Ramesh Ravat, Mr. Aniruddh Naiwar

Objectives of Event: To bridge the gap between academics and industry by providing an insight of various advance manufacturing processes existing in the industry.

Brief about event: The workshop was conducted for the students of 6th semester to acquaint them with various demands and various manufacturing processes practiced in the field. Sathway Associates LLP, being the training provider on behalf of GIDC Lodhika Industry Association, has vast experience and knowledge of what the industry demands from the students cum future employee. Hence it was apt to visit them to stay updated of the industry demands. Theory class was conducted by Mr. Satyajeet Zala and later the practical session was delivered on CNC and VMC machines. Students got a very good insight of various machines, and they could relate the same with their subjects that they studied in their past or are studying currently.

SKILL DEVELOPMENT & HANDS-ON ONE DAY WORKSHOP ON "ADVANCE MANUFACTURING PROCESSES"

January 22, 2022

Time: 7.45 TO 9.15 am at college campus

9.30 am to 1 pm at Skill Development Centre, Almighty Gate, Lodhika (Metoda), GIDC, Rajkot

Organized by: MECHANICAL ENGINEERING DEPARTMENT, V.N.P. ENGINEERING COLLEGE

Participation: 6th Sem Mechanical Engineering students of VVP

In association with SATHWAY Sathway Associates LLP

Free of cost No registration fees



Skill Development & Hands on One Day Workshop

Activity Name: SKILL DEVELOPMENT PROGRAM

Activity Type: WORKSHOP

In association with GTU or ISTE or any other body: CADD CENTRE

Level of event : College

Date: 24-Jan-2022 to 25-Jan-2022

Semester & Number of Students: Fourth 21 Students

Number of Students: 59

Expert Name with Designation: Mr. Pratik Harsora, CADD Centre, Gondal road, Rajkot

Faculty / staff Coordinator Name: J.P.Joshi

Brief about event: This event was organized for fourth semester Mechanical Engineering Students. 21 students were participated in this event. In this event students were not only gone through theory sessions but also done hands on practice. All the sessions were conducted by NX- CAD expert Mr. Pratik Harsora (Mechanical Engineer). At the end of the program certificates were given to the actively participated students. This event was successfully conducted under the guidance and supervision of Head Of Mechanical Engineering Department Dr. N.P.Maniar.

Outcomes of event: Utilize NX-CAD as a drafting and design tool used in the mechanical design and manufacturing industries. Apply basic CAD concepts to develop and construct accurate CAD model through creation of basic geometric constructions. Create, manipulate, and edit 3D drawings and features.

Judge or expert or guests of inauguration or valedictory etc.: Mr. Vimal Dhrangadharia

<p>Hands on workshop on "NX CAD" (Offline Mode)</p> <p>(for the second year Mechanical Engineering students)</p> <p>Venue : V.V.F Engineering College, Kalavad Road Virda-Vadi, Rajkot.</p> <p>Date: 24 and 25 January, 2022 Time: 10.00 am to 1.00 pm</p>	<p>CADD CENTRE www.caddcentre.com</p> <p>Organized by: Mechanical Engineering Department, V.V.P. Engineering College</p> <p>In association with CADD CENTRE, Gondal Road, Rajkot</p>	<p>V.V.P. ENGINEERING COLLEGE RAJKOT</p> <p>25th Anniversary</p> <p>1997-2022</p> <p>www.vvp.edu.in</p>	<p>Chief Patron Shri. Lalitbhai Mehta Hon. Managing Trustee</p> <p>Patron Dr. Jayesh V. Deshkar Principal</p> <p>Convener Dr. Nirav P. Maniar Associated Professor & HOD Jaykumar P. Jeshi Assistant Professor Co-Convener Shri Paras Modi, Shri Kalpesh Ahya</p>	<p>Training Institute Co-ordinator Mr. Ronak Dhrangadharia</p> <p>Expert & Trainer Mr. Pratik Harsora Trainer, CADD Centre</p> <p>Pin to Plane, Logical & Digital, Forever it's MECHANICAL</p> <p>Members All staff members Mechanical Engineering Department</p>	<p>Unique Opportunity to learn the NX-CAD</p> <p>Program features:</p> <ul style="list-style-type: none">No participation feesCertificate of participation to all participants based on successful completion of course work requirements by Mechanical Engineering Department, V.V.P.
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Expert lecture of Aum Joshi

Activity Name: Pre-Placement activity

Activity Type: Expert lecture

Name of expert: Aum Joshi (Current 8thsem student and recently selected in Reliance Industries limited through campus placement)

Level of event: College

Date: 29/1/2022

Semester: 1st, 4th and 6th, Ax and Ay

Number of Students: 100

Faculty / staff Coordinator Name: Prof. Sanket Pandya, Dr. Jiten Makadia

Objectives of Event: To make students interview ready for placement in Multi-national Company

Brief about event: In order to facilitate better performance of students in multi-national companies' personal interviews, an expert lecture covering below content was organized: Important instructions related to RIL selection procedure. How to get prepared for interviews. Importance of technical and extra-curricular participation.

Outcomes of an event: Students got know how about selection criteria in multi-national companies. Students understood importance of vocabulary skills.



Mock Interview

Activity Name: Mock Interview

Activity Type: Placement preparation

Level of event: College

Date: 2/2/2022

Semester: 8th Ax and Ay

Number of Students: 10

Expert Name with Designation: Mr. Ravi Gajjar, Engineer, Jyoti CNC

Faculty / staff Coordinator Name: Prof. Sanket Pandya, Prof. Jiten Makadia

Objectives of Event: To prepare students for company placement interviews

Brief about event: Mock interview drive was conducted by Mechanical Engineering Department. Invited expert was department alumni Mr. Ravi Gajjar who is currently working as development engineer in Jyoti CNC Automation Ltd.

Outcomes of an event: Students got to understand the process of technical interview by industry experts. Students were made aware about the type of questions which can be asked in technical interviews by company experts.



V. V. P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT

MOCK INTERVIEW
for 8th semester
Mechanical Engineering Students

Interviewer
Mr. Ravi Gajjar
Alumni (2014-2018 Batch)
Engineer in Jig and Fixture Development.
© Jyoti CNC Automations LTD., Rajkot

02 • 02 • 2022
at V. V. P. Engineering College, Rajkot

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Lecture on Supercharging and Turbocharging

Activity Name: Lecture on Supercharging and Turbocharging

Activity Type: Content beyond syllabus

Level of event : College

Date: 4-02-2022



Semester: 6th, AX And AY

Number of Students: 52


Expert Name with Designation: Prof.Pooja Ghodasara (Assistant Professor)

Objectives of Event: It is evident for educational institute to impart content based on university curriculum but it is imperative to facilitate and equip the students with latest technology and knowledge so in line with this, session has been organized for the above said topic.

Outcomes of an event: Students enhanced their knowledge in the domain of IC engine. Students learned the significance of Supercharger and turbocharger in IC engine. Students understood the working of supercharger and its impact on rise in efficienc

 **V.V.P Engineering College**
Mechanical Engineering Department 

Expert Lecture on Supercharger & Turbocharger



Contents:

- What is Super charger and Turbocharger.
- Need of Supercharger
- Type of Supercharger
- Working Principle
- Key Components
- Advantages and Disadvantages
- Applications

By Prof.Pooja Ghodasara (M. Tech.)

4th February 2022

8.40 AM - 6th AY
10:00 AM - 6th AX

Offline Platform

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Career Guidance Seminar for first year students

Activity Name: Career Guidance Seminar for first year students

Activity Type: Expert Lecture

In association with GTU or ISTE or any other body: Innovative Education MBP

Level of event : College

Date: 10/02/2022

Semester: 1st, AX

Number of Students: 54

Expert Name with Designation: Mr. Mohit Parmar, Motivational Speaker

Faculty / staff Coordinator Name: Dr. Rupesh V. Ramani

Objectives of Event: To understand the importance of engineering in day-to-day life & Role of mechanical engineer in the society.

Brief about event: The seminar was conducted for the students of 1st semester to acquaint them with importance of engineering in everyday life & to the society. Mr. Mohit Parmar, being the motivational speaker brief the students about engineering that keep inventing for mankind to evolve, protect lives, prevent disease and protect the planet along with discipline, punctuality and humanity are vital integral part of every engineers

Outcomes of the event: Students understood the fundamental role of mechanical engineering in our society along with opportunities in engineering field. Student also gathers the knowledge of new business startups in mechanical engineering



Skill Development Workshop

Activity Name: Skill Development Workshop

Activity Type: Workshop

Associating body: GUJCOST

Level of event: College

Date: 15th and 16th March 2022

Semester: 6th, Ax and Ay

Number of Students: 132

Expert Name with Designation: Mr. Vinal Virani, Research Head, Kavyam Energy Pvt. Ltd. Rajkot Faculty / staff Coordinator Name: Dr. Nirav Maniar, Dr. Jiten Makadia, Prof. Nirav Meghpara, Prof. Pooja Ghodasara, Prof. Sanket Pandya, Mr. Ramesh Ravat, Mr. Kirit Gohel

Objectives of Event: To make students aware about modern software usage in practical applications

Brief about event: A GUJCOST sponsored 2 days skill development workshop was organized by Mechanical Engineering Department. The topic of the workshop was "Computational Modelling of centrifugal and Axial flow compressor in ANSYS". The workshop was based on demonstration of compressor design and analysis using ANSYS.

Outcomes of an event: Student got fundamental knowledge about design, performance and analysis of centrifugal and axial flow compressors. Students got insights about use of ANSYS as a software tool to perform design and analysis.

Guest of inauguration: Mr. Anand Savalia, Director, Kavyam Energy Pvt. Ltd.

Chief Patron:
Shri Lalitbhai Mehta
Hon. Managing Trustee

Patron:
Dr. Jayesh V. Deshkar (Principal)

Conveners:
Dr. Nirav Maniar (Associate Professor and HOD)
Dr. Jiten Makadia (Assistant Professor)
Prof. Nirav Meghpara (Assistant Professor)

Co-conveners:
Prof. Sanket A. Pandya
Prof. Pooja Ghodasara
Mr. Ramesh Ravat
Mr. Kirit Gohel

Members:
All staff of Mechanical Engineering Department

Objective of the Program:
CFD is a simulation tool used to predict what will happen, quantitatively when fluids flow, often with the complication of simultaneous flow of heat, mass transfer, phase change (swirling, freezing, boiling), chemical reaction (combustion, rusting), mechanical movement of (gaskets, fans etc.), stresses in and displacement of immersed or surrounding solids. CFD uses a computer to solve the relevant science-based mathematical equations, using information about the circumstances in question. It is done in three stages: preprocessing, processing and post processing. It becomes very necessary for IG Engineering students to learn the simulation tools used for designing components and systems in Engineering field. This workshop will focus on application aspects of CFD analysis used in solving real life engineering problems.

Participants & Registration Fees:
➤ 6th semester students
➤ Free registration (Selection basis)

Resource Person:
Prof. Vinal G. Virani (Kavyam Energy)
Educational Qualification:
B.Tech (2009), Aeronautical Society of India
M.Tech (2012), Turbo Machines, IIT (Surat)
Ph.D (Pursuing)
Total Experience: 9 years
No. of Paper published: 9
Consultancy work:
Captain tractor Pvt. Ltd. (heat transfer analysis of air cooled C engine liners)
Falcon Pump Pvt. Ltd. (Analysis of secondary losses in impeller of centrifugal pump)
Kavyam Energy Pvt. Ltd. (Design modification of multistage centrifugal pump and evaluation of hydraulic performance)
Kavyam Energy Pvt. Ltd. (Aerodynamic design of wall mounted industrial fan and its performance evaluation)
Current ongoing research:
Wind Turbine Aerodynamics
Design of the control system for the unmanned aerial vehicles
Design of the easy to operate control system for the automatic bath machine
Development of program in MATLAB for iterative design calculations

Apply through:
Desiring applicants should register using following link latest by 20th February, 2022.
<https://www.office.com/0730c0af2d>



Lecture on Basics of Statistical Quality Control

Activity Name: Lecture on Basics of Statistical Quality Control

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 6th AX

Number of Students: 76

Expert Name with Designation: Prof. Jasmin P. Bhimani, Assistant Professor

Objectives of Event: To aware the students about Statistical Quality control

Brief about event: Quality has always been a major strategy for all progressive organizations. Quality control is that part of quality management focused on fulfilling quality requirements of customers. Meaning of quality control has undergone a lot of changes in the past one century. The brief about Variable & Attribute data was given. X-Bar and R Chart was explained.

Outcomes of an event: Students were able to learn:

- Meaning of Quality and Statistical Process Control
- Attribute and Variable data
- X-bar and R chart

 **V. V. P. ENGINEERING COLLEGE**
MECHANICAL ENGINEERING DEPARTMENT

Expert Lecture
on
Basics of SQC

Field: Industrial Engineering

Prof. Jasmin Bhimani
M.E. (CIM), B.E. (Production Engg.)



19th March, 2022 || 8:30 am onwards

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Quality has always been a major strategy for all progressive organizations. Quality control is that part of quality management focused on fulfilling quality requirements of customers. Meaning of quality control has undergone a lot of changes in the past one century

ONLINE SESSION THROUGH: **Microsoft Teams**

Example -1 X-bar Chart (Another method to set control limits)

$$\text{Upper control limit (UCL)} = \bar{\bar{x}} + A_2 \bar{R}$$
$$\text{Lower control limit (LCL)} = \bar{\bar{x}} - A_2 \bar{R}$$

where $\bar{\bar{x}}$ = average of the sample means
 \bar{R} = average range of the samples
 A_2 = factor obtained from Table 6-1.

- A_2 is a factor that includes three standard deviations of ranges and is dependent on the sample size being considered

The value of A_2 is obtained from Table 6. For $n = 4$, $A_2 = 0.73$. This leads to the following limits:

$$\text{The center of the control chart} = \text{CL} = 15.95 \text{ ounces}$$
$$\text{UCL} = \bar{\bar{x}} + A_2 \bar{R} = 15.95 + (.73)(.29) = 16.16$$
$$\text{LCL} = \bar{\bar{x}} - A_2 \bar{R} = 15.95 - (.73)(.29) = 15.74$$

Sample Size n	Factor for X-Chart A_2	Factor for R-Chart D_3	Factor for R-Chart D_4
2	1.88	0	3.27
3	1.02	0	2.57
4	0.73	0	2.28
5	0.58	0	2.11
6	0.48	0	2.00
7	0.42	0.08	1.92
8	0.37	0.14	1.86
9	0.34	0.18	1.82
10	0.31	0.22	1.78
11	0.29	0.26	1.74
12	0.27	0.28	1.72
13	0.25	0.31	1.69
14	0.24	0.33	1.67
15	0.22	0.35	1.65
16	0.21	0.36	1.64
17	0.20	0.38	1.62
18	0.19	0.39	1.61
19	0.19	0.40	1.60
20	0.18	0.41	1.59
21	0.17	0.43	1.58
22	0.17	0.43	1.57
23	0.16	0.44	1.56
24	0.16	0.45	1.55
25	0.15	0.46	1.54

Lecture on Calculation of cost and required components for the Home Rooftop PV Solar

Activity Name: Lecture on Calculation of cost and required components for the Home Rooftop PV Solar

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 6th AX + AY

Number of Students: 76

Expert Name with Designation: Prof. Vijay V Mehta, Assistant Professor

Objectives of Event: To experience the actual world case study on the Rooftop installation cost for PV Solar

Brief about event: Owing to continuous development in research and technology, it becomes evident to facilitate students with recent trend running in industries and latest technology in respective domain. To fulfill this gap, it is necessary for engineering institutions to impart content beyond the syllabus mentioned in university curriculum. Henceforth an expert session on above mentioned topic was conducted through which students got more insights in the said domain.

Outcomes of an event: Students of 6th semester Mechanical Engineering being the target audience, will enable them to excel in Renewable energy Engineering field precisely in the solar system installation.

V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING
DEPARTMENT

Expert Lecture
on
**Calculation of cost and required
components for the Home Rooftop
PV Solar**

Prof. Vijay V Mehta
M.Tech. (Nuclear Engineering)

Semester: 6th
19th March, 2022 || 07.45 AM to 08.55 AM

Solar roof top Installation are very beneficial for household power requirement. Owing to fossil fuel depletion and pollution issues, there is need to shift towards renewable energy source. This lecture gives useful Insights about the tentative cost of installation and the required infrastructure of solar roof top panel

ONLINE SESSION THROUGH: **Microsoft Teams**



Lecture on design of STHX using Bell-Delaware method

Activity Name: Lecture on design of STHX using Bell-Delaware method

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 6th AX + AY

Number of Students: 61

Expert Name with Designation: Prof. Jiten Makadia, Assistant Professor

Faculty / staff Coordinator Name: Prof. Pooja Ghodasara

Objectives of Event: To make students aware about latest technological developments adopted in industries

Outcomes of an event: Students got knowledge about actual design technique used for STHX design. Students were able to differentiate between conventional method like NTU and LMTD with that of empirical method of STHX design. Students got aware about actual practice of STHX design used in industry.



V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING
DEPARTMENT

Expert Lecture
on
Design of
Shell and Tube Heat Exchanger
using Bell Delaware Method



Dr. Jiten Makadia
Ph.D., M.E. (Thermal Engg.)

Semester: 6th
19th March 2022|| 10:00 A.M. Onwards

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Traditional heat exchanger design methods like NTU-Effectiveness and Logarithmic mean temperature difference does not involve intricacies associated with STHX design. In Bell Delaware method, the fluid flow in the shell is divided into a number of individual streams. Each of these streams introduces a correction factor which is used to correct heat transfer coefficient and pressure drop across the shell.

 ONLINE SESSION THROUGH: **Microsoft Teams**

Lecture on e-Business models

Activity Name: Lecture on e-Business models

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 6th(students with Industry 4.0 elective) AX + AY

Number of Students: 51

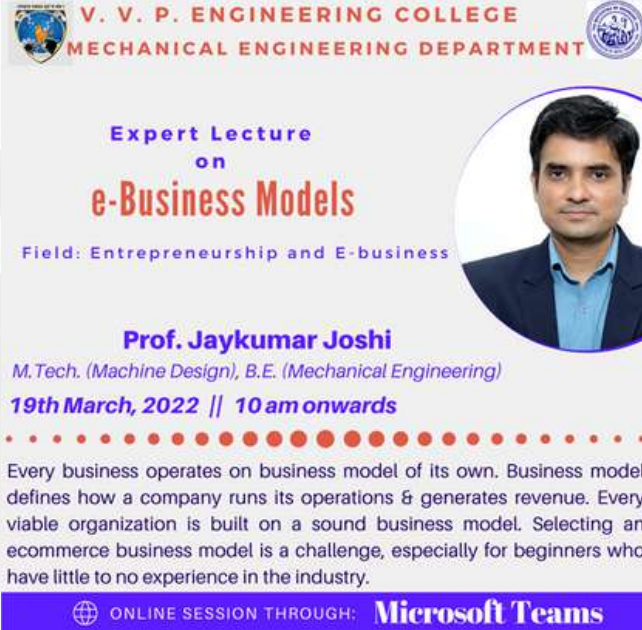
Expert Name with Designation: Prof. Jaykumar P. Joshi, Assistant Professor

Faculty / staff Coordinator Name: Prof. Pooja Ghodasara

Objectives of Event: To understand e-Business models

Brief about event: An online lecture on important topic was organized for 6th semester students with Industry 4.0 elective on the topic of e-Business models. During session e-Business models are explained along with business plan and strategies. Moreover eight key elements of business model like 1. Value proposition, 2. Revenue model, 3. Market opportunity, 4. Competitive environment, 5. Competitive advantage, 6. Market strategy, 7. Organizational development, 8. Management team are also covered in session.

Outcomes of an event: Students got knowledge about actual design technique used for STHX design. Students were able to differentiate between conventional method like NTU and LMTD with that of empirical method of STHX design. Students got aware about actual practice of STHX design used in industry.



V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING DEPARTMENT

Expert Lecture
on
e-Business Models

Field: Entrepreneurship and E-business

Prof. Jaykumar Joshi
M.Tech. (Machine Design), B.E. (Mechanical Engineering)
19th March, 2022 || 10 am onwards

.....

Every business operates on business model of its own. Business model defines how a company runs its operations & generates revenue. Every viable organization is built on a sound business model. Selecting an ecommerce business model is a challenge, especially for beginners who have little to no experience in the industry.

ONLINE SESSION THROUGH: **Microsoft Teams**

Lecture on Shear Force Diagram and Bending Moment Diagram (SFD & BMD)

Activity Name: Lecture on Shear Force Diagram and Bending Moment Diagram (SFD & BMD)

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 4th AX + AY

Number of Students: 56

Expert Name with Designation: Prof. Jaykumar P. Joshi, Assistant Professor

Faculty / staff Coordinator Name: Prof. Pooja Ghodasara

Objectives of Event: To get an idea about the magnitude and direction of forces and moments acting at any section or point of the structure.

Brief about event: An online lecture on content beyond syllabus was organized for 4th semester students on the topic of Shear Force Diagram and Bending Moment Diagram (SFD-BMD).

Outcomes of an event: Students got knowledge about Shear Forces and bending moment variation in a structural member like beam. Students were able to draw and compare the shear force and bending moment diagram for beams under various load conditions. Students were able to assess Bending and shear stresses in beams subjected to different loadings for different machine parts



V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING DEPARTMENT

Expert Lecture
on
**Shear Force Diagram and
Bending Moment Diagram
(SFD & BMD)**

Field: Fundamental of Machine Design

Prof. Jaykumar Joshi
M.Tech. (Machine Design), B.E. (Mechanical Engineering)

19th March, 2022 || 10 am onwards

.....

Shear and bending moment diagrams are analytical tools used in conjunction with structural analysis to help perform structural design by determining the value of shear force and bending moment at a given point of a structural element such as a beam or vertically loaded horizontal member.

ONLINE SESSION THROUGH: **Microsoft Teams**

Lecture on Human Values

Activity Name: Lecture on Human values

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: IEI

Level of event: College

Date: 19-03-2022

Semester: 6th AX + AY

Number of Students: 74

Expert Name with Designation: Prof. Rupesh. V. Ramani, Assistant Professor

Faculty / staff Coordinator Name: Self

Objectives of Event: To explain the need of Human values in this professional and personal world of cutthroat competition.

Brief about event: In present era there is an acute shortage of human values. Everywhere we find the people do not have such things to enrich one's life. Human values have main five pillars- Community, Love, Truth, Responsibilities and Peace. If one can understand all the pillars and applying to their life can be a good citizen and responsible person to the society. This lecture was an effort in the direction to add some values in the students who are going to be a citizen of this country tomorrow.

Outcomes of an event: Students of 6th semester Mechanical Engineering being the target audience, will learn, understand, and try to implement human values in their life.



V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING
DEPARTMENT

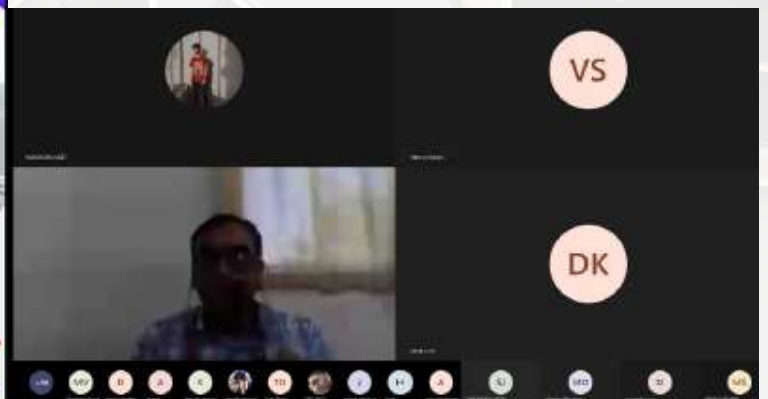
Expert Lecture
on
Human Values

Dr Rupesh V. Ramani
M.Tech. & Ph. D.

Semester: 6th
19th March, 2022 || 12.45 PM to 1.45 PM

In present era there is an acute shortage of human values. Everywhere we find the people do not have such things to enrich one's life. This lecture is an effort in the direction to add values in the students who are going to be a citizen of this country tomorrow.

ONLINE SESSION THROUGH: **Microsoft Teams**



Introduction about CNC Machine

Activity Name: Introduction about CNC Machine

Activity Type: Content beyond syllabus

In association with GTU or ISTE or any other body: College

Level of event: College

Date: 19-03-2022

Semester: 4th AX + AY

Number of Students: 38

Expert Name with Designation: Parth V. Delvadiya (Assistant Professor)



Objectives of Event: Introduce about CNC Technology

Brief about event: Provide knowledge related CNC machine construction & its Process

Outcomes of an event: Student able know about CNC Machine, What are the difference between Conventional Machine Tool and CNC machine, How the work of CNC Machine, Input and Output of CNC Machine, Application of CNC Machine, Construction about CNC Machine etc.

content beyond syllabus

*Introduction about
CNC Machine*



SEMESTER 4TH
19, MARCH 2022
TIME: 12:00 TO 1:00

Expert Name
PARTH V. DELVADIYA
ASSISTANT PROFESSOR

V.V.P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING DEPARTMENT

MSME Programme

Activity Name: MSME Programme

Activity Type: Awareness Programme

In association with GTU or ISTE or any other body: College

Level of event: College

Date: 22-03-2022

Semester: 4th SEMESTER & 6th Semester (selected students)

Number of Students: 03

Objectives of Event: MSME scheme for entrepreneurship .

Brief about event: Students was involved to understand different scheme to encourage for entrepreneurship and make in india project.

Outcomes of an event: Students was able to understand role of the Ministry of MSME and its organisations. They are to assist the States in their efforts to encourage entrepreneurship, employment and livelihood opportunities and enhance the competitiveness



Industrial Visit at Atul Machine Tools

Activity Name: Industrial Visit at Atul Machine Tools

Activity Type: Industrial Visit

In association with GTU or ISTE or any other body: College

Level of event: College

Date: 22-03-2022

Semester: 4th AY

Number of Students: 45

Faculty / staff Coordinator Name: Prof. Sanket Pandya, Asst. Professor, Mr. Ramesh Ravat, Workshop Instructor

Objectives of Event: To provide practical exposure to students about working and application of various conventional machine tools.

Brief about event: The industrial visit was conducted to provide students a practical insight of the theories that they study in the subject Manufacturing Processes. The visit was conducted at Atul Machine Tools, Metoda, a firm that manufactures various conventional machine tools like lathe, grinding machine etc. Students were shown whole process starting from raw material to assembly to final inspection. Various machine tools such as grinders, lathe, planers, shapers, overhead cranes etc. were shown.

Outcomes of an event: Students got to know the applications of various machine tools. Students got to know the applications and advantage of using conventional machine tools over CNC machines. Students got to know about 5S and need of ISO certification and various measuring instruments and gauges. Students understood the step by step process of manufacturing a machine tool.



Industrial Visit at Atul Machine Tools

Activity Name: Industrial Visit at Atul Machine Tools

Activity Type: Industrial Visit

Level of event: College

Date: 24-03-2022

Semester: 4th AX

Number of Students: 42

Faculty / staff Coordinator Name: Prof. Sanket Pandya, Asst. Professor,
Prof. Akash D.Chavda, Asst. Professor

Objectives of Event: To provide practical exposure to students about working and application of various conventional machine tools.

Brief about event: The industrial visit was conducted to provide students a practical insight of the theories that they study in the subject Manufacturing Processes. The visit was conducted at Atul Machine Tools, Metoda, a firm that manufactures various conventional machine tools like lathe, grinding machine etc. Students were shown whole process starting from raw material to assembly to final inspection. Various machine tools such as grinders, lathe, planers, shapers, overhead cranes etc. were shown.

Outcomes of an event: Students got to know the applications of various machine tools. Students got to know the applications and advantage of using conventional machine tools over CNC machines. Students got to know about 5S and need of ISO certification and various measuring instruments and gauges. Students understood the step by step process of manufacturing a machine tool.



Expert Lecture on Recent trends in Automobile vehicle

Activity Name: Recent trends in Automobile vehicle

Activity Type: Expert Lecture

Level of event: College

Date: 29-03-2022

Semester: 6th AX + AY

Number of Students: 135

Expert Name with Designation: Jay Dharaiya (Technical Engineer, Mercedes Benz, Rajkot)

Objectives of Event: To aware students with about recent trends in Automobile vehicle.

Brief about event: Provide knowledge in detail related Recent trends of Automobile Vehicle.

Outcomes of an event: 1. summarized the needs of recent technologies for an automobile vehicle.
2. Understood the basic concepts of I.C. Engine and related recent



Research paper presentation competition

Activity Name: Research paper presentation competition

Activity Type: Department level Competition

Level of event: College

Date: 19-04-2022

Semester: 4th & 6th AX + AY

Number of Students: 13

Name of judges: Prof. Pooja Ghodasara, Prof.Jasmin Bhimani and Prof.Nirav Meghpara

Objectives of Event: It is necessary for engineering institutions to impart content based on university curriculum. However, owing to never ceasing research and advancement in technological arena, it becomes absolutely necessary to facilitate students with latest knowledge in respective domains. Henceforth a research paper writing competition organized for the students to enhance the writing skill.

Result: 1 st Rank- Harsh, Khush and Dhruvil-6 th sem
2 nd Rank-Zeal, Pranav and Manthan-6 th sem



Parent Meeting of 6TH Semester

Activity Name: Parent Meeting 2022

Activity Type: Meeting

Level of event: College

Date: 20-04-2022

Semester: 6th AX + AY

Number of Students: 135

Faculty / staff Coordinator Name: Prof. Jay P. Joshi and Prof. Akash D. Chavda

Objectives of Event: The main objective of this event was to inform parent of the student, about their growth and achievement. It also provides a platform for parents to interact with the teachers and give their suggestion.

Brief about event: This event was organized by VVP college at PDC auditorium on 20th April 2022, Wednesday. The event started at 10:00 AM with presentation of all the achievement of the students. It was followed by interactive session with parents, where parents asked questions and also provide suggestions.

Outcomes of an event: With the help of this meeting, we are generating a channel between the college and the parents of the students.



Seminar on opportunities in manufacturing up-stream supply chain

Activity Name: Seminar on opportunities in manufacturing up-stream supply chain

Activity Type: Expert Lecture

Level of event: College

Date: 30-04-2022

Semester: 4th & 6th - AX + AY

Number of Students: 86

Faculty / staff Coordinator Name: Dr. Rupesh V. Ramani

Objectives of Event: Expert lecture on opportunities in manufacturing up-stream supply chain to understand the organization's suppliers and the processes for managing relationships with them.

Brief about event: Expert lecture on opportunities in manufacturing up-stream supply chain organized by mechanical department on 30th April 2022. Expert lecture was given by Founder and CEO of "FIND ME FACTORY" Mr. Ravin Bhadja. The up-stream supply chain is the network of businesses and business processes involved the creation and selling of a product, from suppliers that procure raw materials through retail outlets and customers.

Outcomes of an event: Students got the knowledge of supply chain planning systems and supply chain execution systems.



FAREWELL - SANGAATH-2022

Activity Name: SANGAATH-2022

Activity Type: Farewell

Sponsors Name and amount : 1) HEER Education-15000/-, 2) Street Café-3000/-
3) Agastya Engg.Works-4000/-, 4) New India Insurance-5000/-
5) TRP-2500/-

Level of event: Department

Date: 04-05-2022

Semester: All semester

Number of Students: 230

Faculty/staff Coordinator Name: Prof. Pooja Ghodasara, Prof. Sahil Yagnik & Shri Kalpesh Ahya.

Objectives of Event: To bid a proper farewell to 2018-22 batch students

Brief about event: A farewell cum Garba night was organized on 4th May followed by dinner. Cultural program like drama, music and dance were presented followed by principal sir's speech and marvelous musical performance was given by Dr. Rupesh Ramani and Prof.Sahil Yagnik.The event was concluded with the speech of Head Of Department Dr.Nirav Maniar.

Outcomes of an event: Students remembered their college time and cherished their attachment and association with the college.



Industrial Visit at Echjay Industries Pvt. Ltd.

Activity Name: Industrial Visit at Echjay Industries Pvt. Ltd.

Activity Type: Industrial Visit

Level of event: College

Date: 07-05-2022

Semester: 4th AX

Number of Students: 37

Faculty/staff Coordinator Name: Prof. Sanket A. Pandya, Asst. Professor
Prof. Sahil Y. Yagnik, Asst. Professor

Objectives of Event: To provide practical exposure to students about working and application of various conventional machine tools in forging industry.

Brief about event: The industrial visit was conducted to provide students a practical insight of the theories that they study in the subject Manufacturing Processes. The visit was conducted at Echjay Industries Pvt. Ltd., Aji Industrial Estate, a firm that produces various components using hot forging and cold forging and later does various machining processes on it. Students got to see CNCs, VMCs, broaching machine, bandsaw, forge, overhead cranes etc.

Outcomes of an event: Students got to know the applications of various machine tools in forging industry. Students got to know the applications and advantage of using conventional machine tools over CNC machines. Students got to know about 5S and need of ISO/IATF certification and various measuring instruments and gauges.



Skill development program

Activity Name: Skill development program

Activity Type: Skill development

Level of event: College

Date: 12-05-2022

Semester: 4th AY

Number of Students: 40

Expert Name with Designation: Prof. Nirav Meghpara, Assistant Professor, Mechanical Engineering Department, VVP Engineering College, Rajkot.

Faculty/staff Coordinator Name: Prof. Nirav Meghpara

Objectives of Event: To make students aware about modern equipment usage in practical applications

Brief about event: A skill development program was organized for students of 4th sem Mechanical Engineering on use of inverted metallurgical microscope for assessment of material microstructure.

Outcomes of an event: Student got fundamental knowledge about usage of inverted metallurgical microscope. Students got insights about use of inverted metallurgical microscope in industries like casting, forging and heat treatment.



V. V. P. ENGINEERING COLLEGE
MECHANICAL ENGINEERING
DEPARTMENT

Skill Development
Programme
on
INVERTED
METALLURGICAL
MICROSCOPE

Prof. N K Meghpara
(Pursuing Phd from NIT Kurukshetra,
M.Tech. from NIT Kurukshetra)

Semester: 4th - Ay
MAY 12, 2022
10:55 am to 11:50 am
Venue: G08

Pin to Plane, Logical & Digital;
Forever, It's MECHANICAL



Industrial Visit at Echjay Industries Pvt. Ltd.

Activity Name: Industrial Visit at Echjay Industries Pvt. Ltd.

Activity Type: Industrial Visit

Level of event: College

Date: 05-06-2022

Semester: 4th AY

Number of Students: 22

Faculty/staff Coordinator Name: Prof. Niraj R. Shingala, Asst. Professor
Prof. Rameshbhai Rawal, Workshop Supervisor

Objectives of Event: To provide practical exposure to students about working and application of various conventional machine tools in forging industry.

Brief about event: The industrial visit was conducted to provide students a practical insight of the theories that they study in the subject Manufacturing Processes. The visit was conducted at Echjay Industries Pvt. Ltd., Aji Industrial Estate, a firm that produces various components using hot forging and cold forging and later does various machining processes on it. Students got to see CNCs, VMCs, broaching machine, bandsaw, forge, overhead cranes etc. They have a eight Machine shop for Manufacturing Purpose

Outcomes of an event: Students got to know the applications of various machine tools in forging industry. Students got to know the applications and advantage of using conventional machine tools over CNC machines. Students got to know about 5S and need of ISO/IATF certification and various measuring instruments and gauges.



Parents Meeting 4th Semester

Activity Name: Parent Meeting 2022

Activity Type: Meeting

Level of event: College

Date: 09-06-2022

Semester: 4th AX+4th AY

Faculty/staff Coordinator Name: Prof. A.D.Sapariya, Dr. Dipesh Kundaliya

Objectives of Event: The main objective of this event was to inform parent of the student, about their growth and achievement. It also provides a platform for parents to interact with the teachers and give their suggestion.

Brief about event: This event was organized by VVP college at PDC auditorium on 9th June 2022, Thursday. The event started at 10:00 AM with presentation of all the achievement of the students. It was followed by interactive session with parents, where parents asked questions and also provide suggestions.



Parents Meeting 2nd Semester

Activity Name: Parent Meeting 2022

Activity Type: Meeting

Level of event: College

Date: 25-06-2022

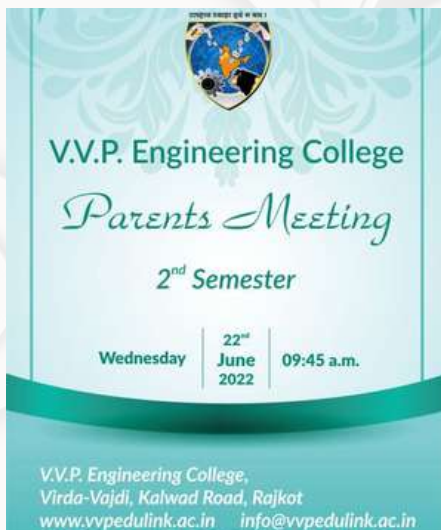
Semester: 2nd

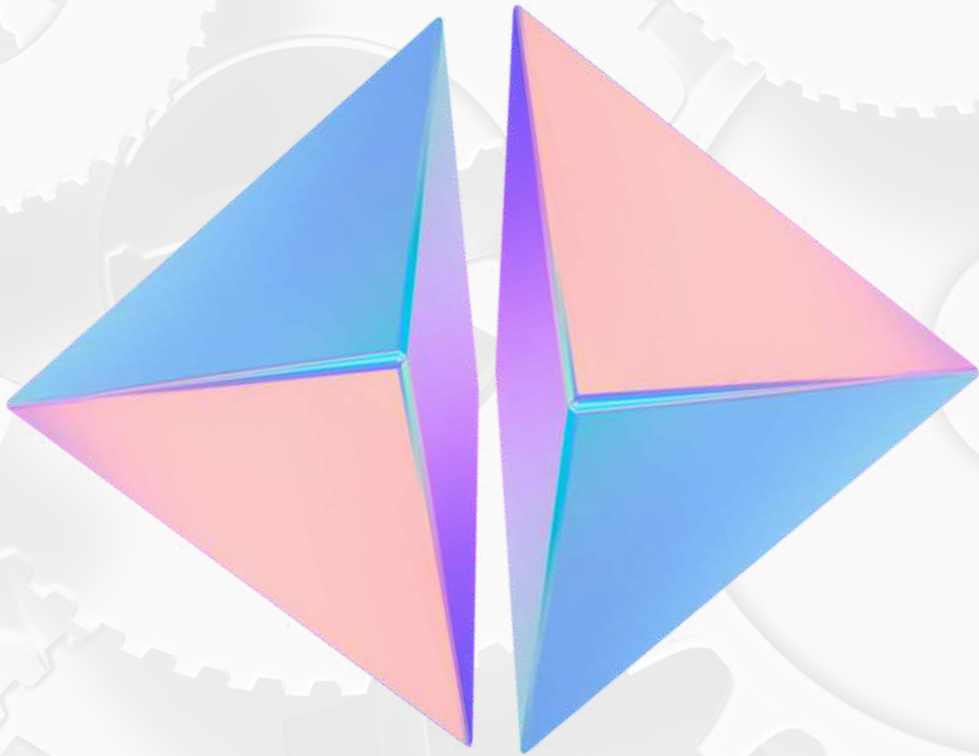
Faculty/staff Coordinator Name: Prof. V.V.Mehta, Shri K.N.Gohel

Statement of purpose: To share the progress of the students and explain our teaching & assessment methods with parents who are our stakeholders.

Expert credentials: Dr. Jayesh Deshkar is principal of VVP Engineering college. Dr Nirav P Maniar is Head of the department of mechanical engineering department.

Outcomes of the session: Dr Jayesh Deshkar has given brief regarding overall development with the focus on goal achievement. He has assured that collaborative effort with help of parents to be put for student development. Dr Nirav Maniar has addressed all queries during department meeting with parents. During department visit, all parents has received their children's mid semester 1 result for progress in second semester. Total 43 parents are remained present during the department visit. They have left institute with taking snacks at canteen.





ACHIEVEMENT





Suryanamaskar

**CONGRATULATION TO SECURE
2ND RANK
IN COLLEGE LEVEL SURYANAMASKAR
COMPETITION**

RAVAT MAHESH
SECOND YEAR STUDENT
MECHANICAL ENGINEERING
DEPARTMENT



19, JANUARY 2022

V.V.P. ENGINEERING COLLEGE



SURYANAMASKAR

**CONGRATULATION TO SECURE
2ND RANK
IN COLLEGE LEVEL SURYANAMASKAR
COMPETITION**

PROF. SANKET PANDYA
ASSISTANT PROFESSOR
MECHANICAL ENGINEERING
DEPARTMENT



**19, JANUARY 2022
V.V.P. ENGINEERING COLLEGE**





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



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

क्रमांक : 022116948
SL No :



पेटेंट सं. / Patent No. : 390378
आवेदन सं. / Application No. : 3581/MUM/2015
फाइल करने की तारीख / Date of Filing : 21/09/2015
पेटेंटी / Patentee : 1.Rupeshkumar V. Ramani 2.Praghesh S. Raiyani

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित "NANOCOMPOSITE COATED BOROSILICATE SOLAR EVACUATED TUBE" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 21st day of September 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "NANOCOMPOSITE COATED BOROSILICATE SOLAR EVACUATED TUBE" as disclosed in the above mentioned application for the term of 20 years from the 21st day of September 2015 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 25/02/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 21st day of September 2017 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of September 2017 and on the same day in every year thereafter.



V.V.P.
ENGINEERING COLLEGE

Congratulations

1st
Rank in
Wrestling
(District Level -
Khel Mahakumbh)



**Mechanical Engineering
Department**

Preksha Kotak



V.V.P. ENGINEERING COLLEGE, RAJKOT
MECHANICAL ENGINEERING DEPARTMENT

Pin to Plane
Logical & Digital
Forever It's Mechanical

Congratulates

Mr. Harsh Cholera

Our B.E.Mechanical passout
student in Year 2017 received
Silver Medal in MBA at P.D.P.U



Pride of V.V.P. Mechanical



Harsh Cholera

પ્રતિજ્ઞા

અમે,
વી.વી.પી.

એન્જનીયરીંગ કોલેજના
વિદ્યાર્થીઓ, સંકલ્પ કરીએ છીએ કે,
અમે શ્રદ્ધા, સંયમ, શિસ્ત,
એકાગ્રતા અને પુરુષાર્થથી, જ્ઞાન પ્રાપ્ત કરી,
રચનાત્મક અને હકારાત્મક અભિગમ કેળવી,
સામર્થ્યવાન ઇજનેર બની,
વિશ્વના મંગલ વિકાસ માટે,
ભારતમાતાને, પ્રથમકક્ષાની,
મહાસત્તા બનાવવા,
અવિરત
પુરુષાર્થ
કરતા રહીશું.

ભારત
માતા ડી
જય

राष्ट्राय स्वाहा इवं न मम ।



V.V.P. ENGINEERING COLLEGE

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