

GOVERNMENT ENGINEERING COLLEGE, MODASA

MECHANICAL ENGINEERING DEPARTMENT

Vol: 8

INFORMATION BOOKLET

June | 2024



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MESSAGE FROM THE HEAD OF DEPARTMENT

Mechanical Engineering

Prof. Dr. Jeetendrakumar Vadher

Dear Students, Faculty and Stake Holders,
Warm greetings to All.

It is with great pleasure and pride that I address you today as the Head of the Mechanical Engineering Department. As I stand before you, I am reminded of the incredible journey we have embarked upon, pushing the boundaries of innovation, and contributing to the remarkable advancements in the field of mechanical engineering.

Our department, comprising a team of brilliant minds and dedicated individuals, has consistently strives for excellence in education, research, and development. We believe in nurturing the next generation of engineers who will shape the future with their knowledge, skills, and creativity.

In this rapidly evolving world, mechanical engineering plays a pivotal role in addressing the challenges of sustainability, energy efficiency, and technological advancements. Our University curriculum is designed to provide students with a strong foundation in core mechanical engineering principles while also encouraging interdisciplinary collaboration. We foster an environment that nurtures curiosity, critical thinking, and problem-solving abilities. By integrating theory with hands-on practical experience, we equip our students with the necessary tools to tackle real-world engineering challenges.

Furthermore, our department actively promotes research and innovation. Our faculty members are engaged in groundbreaking research across various domains, including Automation, renewable energy, materials science, Manufacturing, and more. We encourage students to participate in research projects under SSIP, fostering a culture of exploration, innovation, and intellectual growth.

Prof. Dr. Jeetendrakumr A. Vadher
Head of Department
Mechanical Engineering

ABOUT THE INSTITUTE

Government Engineering College, Modasa was established in 1984 under the Directorate of Technical Education, Gujarat State, Gandhinagar in North Gujarat region with a view to spread out technical education in the region and hence promote industrial development. The institute was affiliated with Hemchandracharya North Gujarat University (HNGU), Patan from 1984 to 2007. The institute is affiliated to Gujarat Technological University; Ahmedabad from 2008. It is recognized by All India Council for Technical Education (AICTE), New Delhi.

The institute was started with two undergraduate courses, with an intake of 60 each. At present it runs seven under graduate courses and two post graduate courses. Each department has well established laboratories, computer centers and well qualified staff.

VISSION AND MISSION

VISSION

To be a Leading Institution on Ensuring Academic Excellence, Research, Nurturing Innovation and Entrepreneurial Attitude to produce competent technocrats for service to Nation.

MISSION

- To be a student centric institute imbibing experimental, innovative and lifelong learning skills, addressing societal problems.
- To create a conducive ecosystem for research, innovation and extension services.
- To inculcate entrepreneurial attitude and values amongst learners.
- To collaborate with Industries and other institutions to strengthen symbiotic relations.
- To mentor aspiring Institutions to unleash their potential, towards nation building.



ABOUT THE DEPARTMENT

➤ MECHANICAL ENGINEERING DEPARTMENT

Mechanical Engineering Department was established since inception of the institute and is considered as one of the concrete pillars of Government Engineering College, Modasa. The department offers Bachelor of Engineering in Mechanical with an intake capacity of 60 students. The department has highly qualified faculty members and all the laboratories are equipped with latest technology equipments/instruments. The department provides teaching in the area of thermodynamics, fluid mechanics, fluid power engineering, heat transfer, refrigeration and air conditioning, design and dynamics of mechanical systems etc. Department of mechanical engineering has a vision to prepare determined, innovative, inventive, self esteemed and goal oriented mechanical engineers with good technical knowledge, proper analytical and communication skill.

Department of Mechanical and Automobile Engineering emphasize on developing technical skills and creating awareness about needs of industries through industry institute interaction, technical seminars, workshops and technical training etc. Students are encouraged to think innovatively through project works related to mechanical engineering by providing all kind of support for overall personality development. This department has two wings, one at Workshop Building and another at New Academic Building i.e. Building No. 6.

➤ WORKSHOP BUILDING

Mechanical Workshop building strengthens the department to achieve its vision and missions. This building has many facilities where students can apply their cognitive skills and develop new skills. Mechanical workshop has facilities like Lathes, milling machine, drilling machines, shaper machines etc upon which students in team performs various machining processes. Workshop building envelopes some advance technology like CNC machine, advance turning machines, computerized engine test setup etc. Overall, Mechanical workshop pumps the enthusiasm in the student's hearts and provides a platform for their development.





VISSION AND MISSION OF THE DEPARTMENT

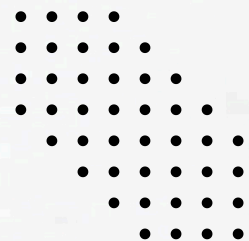
VISSION

Build a strong teaching-learning and research environment to prepare determined, innovative, inventive, self-esteemed and goal oriented mechanical engineers with good technical knowledge, analytical and soft skill.

MISSION

To equip mechanical engineering graduates to face challenges of industries, society and nation by

- Providing domain knowledge through qualified, experienced and trained faculties in healthy environment.
- Developing technical skills and creating awareness about needs of industries by encouraging entrepreneurial attitude.
- Encouraging graduates to think innovatively through project works with professional ethical practices.
- Providing all kinds of support for overall personality development.



FACULTY AND STAFF (MECHANICAL ENGINEERING)

DR. JEETENDRAKUMAR VADHER

Designation : Professor & Head of Department
Qualification : M. Tech. (IIT-Madras), Ph.D. (HNGU-Patan)
Experience : 28 Years
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MILAP M. MADHIKAR

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DR. UTPAL VINODCHANDRA SHAH

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DR. MAHESHBHAI JAVARABHAI VANAJARA

Designation : Assistant Professor
Qualification : Ph. D. from IITR
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DR. SANJAY PRAHLADBHAI PATEL

Designation : Associate Professor
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DR. PRATIK R. PAREKH

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DR. PIYUSHKUMAR M. MISTRI

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DR. VANVIRSINH JAGATSINH CHAUHAN

Designation : Assistant Professor
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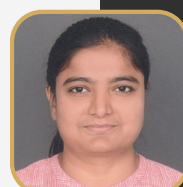
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FACULTY AND STAFF (MECHANICAL ENGINEERING)

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I.R. KALASVA

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FACULTY AND STAFF (AUTOMOBILE ENGINEERING)

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LABORATORIES



BASIC MECHANICAL ENGINEERING LAB

The significance of basic mechanical engineering laboratory is intended to provide knowledge of the underlying principle of energy conversion systems and power plants, power producing and power absorbing devices. Laboratory is well equipped with various instruments as per the syllabus.

FLUID MECHANICS AND FLUID POWER ENGINEERING LAB:

This laboratory is equipped with all modern turbo machines and fundamental test set up like pumps, fans, Pelton wheel turbine test set up, Francis turbine test rig, Centrifugal pump test rig, Reciprocating pump test rig, test set up for impact etc. These equipment's provide a detailed knowledge to the students to understand various fluid properties.



REFRIGERATION AND AIR CONDITIONING LAB:

This laboratory houses the vapor compression refrigeration system, air conditioning, heat pump setup, refrigerator to determine the most crucial performance parameters of RAC devices. This lab plays a very important role to understand various refrigeration cycles used in domestic as well as Industrial purpose.

CAD/CAM LAB

This laboratory emphasizes on computer aided design and manufacturing, quality control and measurement too. It also provides various activities in non-conventional manufacturing, flexible manufacturing system and automation. This lab is equipped with CNC turning centre, 5 axis robot and other equipment's required as per syllabus.



LABORATORIES



WORKSHOP AND MACHINE SHOP LAB:

Workshop has various facilities like Machine shop, Carpentry shop, Fitting shop, Welding shop, Smithy shop, Plumbing shop, Foundry shop etc. to cater to hands on experience for the students. For manufacturing process, this workshop has a more no. of lathe machine, drilling machine, shaper machine, shearing machine etc.

INTERNAL COMBUSTION ENGINE AND AUTOMOBILE ENGINEERING LAB:

This laboratory is equipped with modern instruments like modern internal combustion engine test rig, diesel smoke meter, variable compression ratio engine test rig, five gas exhaust gas analyzers etc. This lab is also facilitated by demonstrative instruments like disc brake model, multiple clutch model, cut section of carburetor, Diesel jeep of Mahindra & Mahindra, computerized wheel balancer, garage instruments, cut section of steering mechanism etc.



HEAT TRANSFER LAB:

This lab course is primarily being offered to the III Year B.E. Mechanical Engineering Students to make them understand the principles of i.e. conduction, convection, Radiation boiling and Condensation modes of heat transfer and principles of Refrigeration and Air Conditioning. Laboratory is equipped with the set up of Pin Fin Apparatus, Heat transfer in Natural convection, Composite Wall Apparatus etc.

KINEMATICS AND DYNAMICS OF MACHINES LAB:

Students are greatly benefited by studying the demonstration of the Slider Crank Mechanism, Cam Follower Mechanism, Different Gears and Gear train Mechanism etc.



NEWSLETTER

MECHANICAL ENGINEERING DEPARTMENT
GOVERNMENT ENGINEERING COLLEGE, MODASA
VOL. 8



MECHINSIGHT

Mechanical Engineering Department Magazine was inaugurated by the Er.Navinchandra Vasoya (WEFO), Er.Vijay Solanki (WMF), Mr.Setu Shah (Entrepreneurs Sujalaam), Dr.B.J.Shah (Principal GEC,Modasa), Dr.J.A.Vadher and Dr.U.V.Shah Head of Department of Mechanical and Automobile Engineering respectively. This magazine contains various details namely, Faculty details, Faculty achievement, Industry partners, Placement, Expert lectures, various achievement of students related to Technical and Sports. The aim of this magazine is to motivate the students for participating in every curricular activity related to college level as well as state level competitions. This magazine also provides the Platform not only for the students but also for the faculty members to search their hidden talent and make it in reality.

Top News

New Inaugurations:

- The “MECHINSIGHT” Mechanical Engineering Department Magazine
- The inauguration of new conference room



New Magazine Inaugurated

01/12



New Conference Room Inaugurated

The inauguration of Conference room at Mechanical Engineering Department on 4th March 2024, marks a milestone in the institution's development as well as infrastructure enhancement.

The auspicious event was graced by Er.Navinchandra Vasoya (WEFO), Er.Vijay Solanki (WMF), and Mr. Setu Shah (Entrepreneurs Sujalaam), Dr. B.J.Shah (Principal GEC, Modasa), Dr. J. A. Vadher and Dr. U. V. Shah, H.O.D., Mechanical and Automobile Engineering Department respectively.

Inside The Issue

• Departmental Activities

The Departmental Activities takes initiatives for overall development of students and give them a practical orientation to inculcate employability skills which will help them to face this competitive world. The department activities conducted are focused on imparting technical knowledge along with its application in the practical world. Simultaneously personality development of students is also given priority. It includes major activities conducted such as Quiz Competition, Expert Lectures, Workshops, Seminars, Industrial Visits.

• Faculty Activities

Educational activity of the Faculty is performed through studies, including the special forms of study for knowledge upgrading and continuous professional education and training. Scientific work is performed through basic, applied and development research, which is carried out for the purpose of developing the profession, raising the quality of teaching, upgrading the scientific and professional level.

• Placement



World Engineering Day

The Department of Mechanical and Automobile Engineering have Celebrated "World Engineering Day" on 4th March 2024 with the presence of the Dignitaries Er.Navinchandra Vasoya (National Member, Executive Council, World Federation of Engineering Organizations), Er. Vijay Solanki (Deputy Director, WMF, IEI, Ahmedabad), And Mr. Setu Shah (Multi-skilled and dynamic entrepreneurs Sujalaam, Ahmedabad). More than 120 students have participated. The main key objective of this celebration to Create awareness of World Engineering Day as an important international day for achieving sustainable development.

DEPARTMENTAL ACTIVITIES

ADVANCEMENT IN WELDING TECHNOLOGY



The Department of Mechanical and Automobile Engineering have organized a Seminar on Advancement in welding technology: Transforming Industries and Innovation on 21st August 2023 under G20 & Y20. The program was coordinated by Dr. P. M. Mistri and H.I. Chaudhari under the Guidance of Dr. J. A. Vadher and Dr.U.V.Shah, H.O.D., Mechanical and Automobile Engineering Department respectively. More than 90 students have actively participated in the program. Dr.Vishwesh Badheka, IWE, Ph.D., Professor and Dean (Academic Affairs), Department of Mechanical and Automobile Engineering, School of Technology, PDEU had delivered the session. The session Provide valuable insights about advances in welding.

FROM IDEA TO PROTECTION MASTERING THE PATENT FILING JOURNEY



The Department of Mechanical and Automobile Engineering have organized a Seminar on From Idea to Protection Mastering the PATENT FILING Journey on 23rd August 2023 under G20 & Y20. The program was coordinated by Dr. P. M. Mistri and H.I.Chaudhari under the Guidance of Dr. J. A. Vadher and Dr. U. V. Shah, H.O.D., Mechanical and Automobile Engineering Department respectively. More than 60 students have actively participated in the program. Dr. Khusbu Patel, Analytical application scientist Inventa systems, Ahmedabad had delivered the session. The session Provide valuable insights about patent filing journey.

AUTOCAD SOLIDWORKS ANSYS AND VR TECHNICAL SESSION ON DESIGN SOFTWARE

The Department of Mechanical and Automobile Engineering have organized a Seminar "AutoCAD SolidWorks Ansys And VR Technical Session on Design Software" on 15th September 2023. The program was coordinated by Dr. P. M. Mistri and H.I.Chaudhari under the Guidance of Dr. J. A. Vadher and Dr. U. V. Shah, H.O.D., Mechanical and Automobile Engineering Department respectively. More than 60 students have actively participated in the program. Mr. Nimesh Patel, Director of Khodiyar Cad Center, Ahmedabad had delivered the session. The session Provide valuable insights about Solidworks.



WEBINAR ON ROBOTICS



The seminar was organized on 21/09/2023. The student volunteers from GTU Robotics Club had delivered a seminar on introduction to the Robotics club. The seminar was unique as it was organised for the students of GECEM by the student volunteers of GTU to enrich the ecosystem of robotics This informative session motivated the students to be a part of such events They inquired about the robotics workshop and were eager to enrol in it. The program was coordinated by Prof. M. M. Madhikar, Dr.M.J.Vanjara and Dr. P.M.Mistri. More than 80 students have actively participated in the seminar.

INDUSTRIAL VISIT



Mechanical & Automobile engineering students of semester 7 visited the Pandit Deendayal Energy University on 22/10/2023. The students were coordinated by Dr. P. M. Mistri, Dr. B. C. Khatri and Prof. R. B. Shah. The entire visit at PDEU was coordinated by Dr. Vishwesh Badheka Sir. The students had learned a conventional 3-D printing process and metal 3-D printing process with types of welding processes. Dr. Badheka Sir had given in-depth practical knowledge about it. Then students went at Innovation Lab. of PDEU and also visited the 1 MW Solar Power Plant. The visit was really well-meaning for the students. They have really got the technical knowledge regarding their field.



VISIT TO THE SPACE APPLICATIONS CENTRE (SAC), ISRO, AHMEDABAD

Mechanical & Automobile engineering students of 4th semester visited the Space Applications Centre (SAC)- a major research and development centre of the Indian Space Research Organisation (ISRO) Ahmedabad on 11/05/2024. It was coordinated by Dr.P.M.Mistri. Students toured the cutting-edge Space Applications Centre (SAC) Lab, which features significant attractions like 3D theatre, GSLV animation, virtual presenter, augmented reality, and TV without glasses. Students gained knowledge about the fuel, engine, size, and different components of GSLV and PSLV rockets. They learned about the different kinds of satellites that India has launched, including Chandra and Mangal Yaan, and the materials used to make them. Additionally, they were given a brief overview of the materials used to make them. Additionally, they were given a brief overview of ISRO's ongoing initiatives.



AN EXHIBITION ON SAVE WATER EXHIBIT BY WATER MANAGEMENT FORUM



The Department of Mechanical and Automobile Engineering have organized Poster Exhibition on "Save Water" on 4th March 2024. With common aim to create awareness and promote action towards water conservation in association with Water Management Forum (WMF), and the Institution of Engineers (India) IEI Ahmedabad. Through this interactive exhibition students inspired to take concrete steps towards saving water in their daily lives.

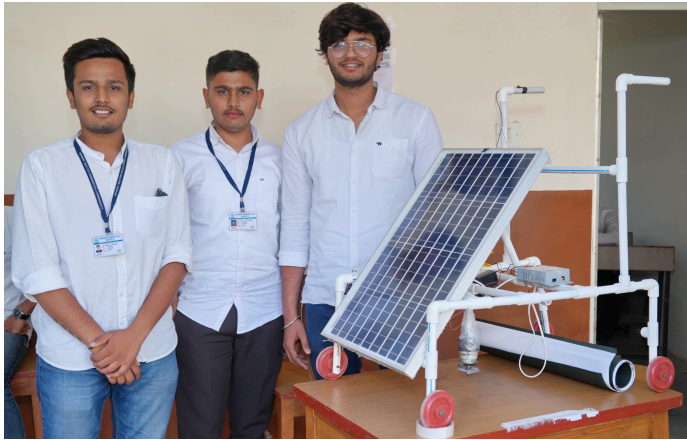
SEMINAR ON THE THEME CHANGE IN LIFESTYLE TO BECOME AATMANEERBHAR SELFRELIANT IN WATER



The Department of Mechanical and Automobile Engineering have organized a Seminar on the Theme "Change in Lifestyle to become 'aatmaNEERbhar' – SelfReliant in Water." on 4th March 2024. The program was coordinated by Dr. P. M. Mistri and H.I. Chaudhari under the Guidance of Dr. J. A. Vadher and Dr. U. V. Shah, H.O.D., Mechanical and Automobile Engineering Department respectively. More than 120 students have actively participated in the program. Mr. Setu shah, multi-skilled and dynamic entrepreneurs Sujalaam, Ahmedabad had delivered the seminar. The seminar was very informative and encouraged students to adopt innovative techniques and sustainable lifestyle changes to become self-sufficient in water, fostering the development of a culture that values water conservation and responsible stewardship.

THE PROJECT EXPO – 2024

04 March 2024



The Department of Mechanical and Automobile Engineering has organized "The Project Expo-2024" on 4th March 2024. The project prepared by students using innovative ideas, and it drew the attention of dignitaries during the project expo. While visiting the Expo, the judges expressed their appreciation to the students for their tireless work in showcasing their creative ideas for the good of society. His motivational remarks also sparked a desire in them to succeed in the technical domain.



The major objective of organizing this Project EXPO was to provide a platform, for the young minds to show their talents practically and to outcome their potential by showcasing their innovative projects developed in the 3rd Year of Design Engineering Subject either focusing Industry Defined Problems or User Defined Problems. This provided an opportunity for the students to demonstrate their learning experience.



FACULTY ACTIVITIES

RESEARCH AND PUBLICATIONS

Dr. Bharat C. Khatri has published a research paper on “Investigation of effect of post weld heat treatment on microhardness and microstructure of auto TIG welded stabilized SA213 TP347H weldments,” to Welding International Journal published by Taylor & Francis on 19 April 2024.

Volume- 38, Issue-5 Page No. 366 - 382.

<https://doi.org/10.1080/09507116.2024.2342340>

ACHIVEMENTS

A patent has been granted to Dr. Jeetendra A. Vadher for an invention entitled **UNIVERSAL CENTRIFUGAL CASTING MACHINE** for the term of 20 years from the 6 December 2021 in accordance with the provisions of the Patent Act, 1970 by the Patent Office, Government of India.

Patent No.528730, Application No. 202121056480

STUDENTS GUIDED

Sr.No.	Name of Faculty	Name of Student	University
1	Dr. Jeetendra A. Vadher	Anand Patel	Gujarat Technological University, Chandkheda Ahmedabad
2	Dr. Jeetendra A. Vadher	Nimesh Patel	Gujarat Technological University, Chandkheda Ahmedabad
3	Dr. Jeetendra A. Vadher	Mehul Mehta	Gujarat Technological University, Chandkheda Ahmedabad
4	Dr.Bharat C. Khatri		Gujarat Technological University, Chandkheda Ahmedabad
5	Dr.Bharat C. Khatri		Gujarat Technological University, Chandkheda Ahmedabad

FACULTY OUTREACH

A state-level photography workshop was organised by Training and placement and media cell of GEC Valsad on 18-19 March 2024. Prof. M. M. Madhikar from mechanical department was invited as an expert to deliver presentations on both the days. 24 students and faculties from all around the state participated in the workshop.



PARTICIPATION

Faculty Name	Training/Induction Phase/FDP/Workshop/Seminar	Starting Date	Ending Date	Hosting Institution	Venue
Dr. V.J.Chauhan	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Prof.R.B.Shah	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Dr. Samrudhhi Patel	Participated in NPTEL-AICTE faculty development program on "Leadership and Team Effectiveness "	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Dr. M.J.Vanajara	Participated in "Advances in Manufacturing - Industrial 4.0 Perspectives"	01/01/2024	06/01/2024	CTE, Gandhinagar	GEC, Dahod
Dr. M.J.Vanajara	Participated in NPTEL-AICTE faculty development program on "Entrepreneurship Essentials"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Dr. M.J.Vanajara	Participated in NPTEL-AICTE faculty development program on "German-I "	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Dr. P.M.Mistri	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online

PARTICIPATION

Faculty Name	Training/Induction Phase/FDP/Workshop/Seminar	Starting Date	Ending Date	Hosting Institution	Venue
Dr. P.M.Mistri	Participated in NPTEL-AICTE faculty development program on "Training and Development"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Prof.M.G.Patel	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Prof.M.G.Patel	Participated in NPTEL-AICTE faculty development program on "Training and Development"	01/01/2024	06/01/2024	CTE, Gandhinagar	GEC, Dahod
Prof.H.I.Chaudhari	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Prof.H.I.Chaudhari	Participated in NPTEL-AICTE faculty development program on "Training and Development"	22/01/2024	12/04/2024	SWAYAM NPTEL	Online
Dr. J.C.Gamit	Participated in NPTEL-AICTE faculty development program on "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems"	22/01/2024	22/01/2024	SWAYAM NPTEL	Online

PLACEMENT

The Training and Placement Cell of GEC, Modasa provides guidance and all the assistance to the students in order to achieve their career goals. 24 students placed through the campus placement program from Mechanical and Automobile engineering of batch 2020-2024.



UMESH AASERI



YUVRAJ CHUDASAMA



DHRUV PATEL



MAHENDRA LODH



MUKESH CHHATROD



KORI MAHESH



SARDHARA HARSH



KADAM UTSAV

SALARY PACKAGE: 5 Lakh per Annum

adani

SALARY PACKAGE: 3.00 Lakh per Annum



TATA MOTORS

SALARY PACKAGE: 3.00 Lakh per Annum



TATA MOTORS



ROSHAN DUBEY
(Batch-2023)



VISHAL PRAJAPATI
(Batch-2023)



VISHWAS DARJI



DHRUV PATEL



SUNNY MISHRA



JAY PANDYA

SALARY PACKAGE: 2.64 Lakh per Annum



OSWAL
INDUSTRIES LIMITED



TUSHAR THANKI



HARSH GADHAVE



JAY PANDYA

SALARY PACKAGE: 2.40 Lakh per Annum



Greening INDIA



SONALI GUPTA



AJAY PRAJAPATI



ANKIT MODI

SALARY PACKAGE: 2.40 Lakh per Annum



HARSHIL TRIVEDI



ARUN YADAV



RAHUL MEHTA



AAYUSH ANIL

SALARY PACKAGE: 2.64 Lakh per Annum



OSWALINFRA
CREATING IDEAS. BUILDING FUTURE.



MEHTA CAD CAM SYSTEMS PVT. LTD.

GLIMPSES

