

GOVERNMENT ENGINEERING COLLEGE PATAN
MECHANICAL ENGINEERING DEPARTMENT
NEWSLETTER

TORQUE-TALK

JULY-DEC 2025



Editor Team:

DR. H. R. PRAJAPATI
PROF. R. A. OZA
PATHAN SOHRANKHAN
PATEL DISHANK

MESSAGE FROM THE HEAD OF DEPARTMENT

Prof. (Dr.) A B Dhruv

Head of Department
Mechanical Engineering



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 strived 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.



The signature is handwritten in black ink on a white background. It consists of stylized initials 'A' and 'B' enclosed in a circle, followed by the name 'Dhruv' written in a flowing cursive script, and a diagonal line or flourish at the end.

GOVERNMENT ENGINEERING COLLEGE PATAN

ABOUT THE INSTITUTE



What we are...

Government Engineering College, Patan was established in April 2004 with three branches: Computer Engineering, Electronics and Communication Engineering, and Mechanical Engineering each with intake of 60 totaling to 180. The institute was initially functioning in the premises of the K. D. Polytechnic, Patan temporarily. It was shifted to its own newly built-up green premise in August 2008 at Katpur village on Chanasma- Patan road 8 kms before Patan.

Two more branches of Electrical Engineering and Civil Engineering each with intake of 60 were introduced from June- 2009. The intake of Electronics and communication was reduced to 30 and Mechanical Engineering was reduced to 90 from 2020. Currently institute have total intake 330. Each department has well established laboratories, computer centers and well qualified staff.

VISION

To prepare Human Resources with value based competency for technical advancements and growth of society.

MISSION

- To deliver technical programs and services to cater the current needs of society and industry.
- Helping industries in solving challenges by means of providing best technical human resources.
- To contribute in sustainable growth of society.

MECHANICAL ENGINEERING DEPARTMENT

ABOUT THE DEPARTMENT



Our strong academic performance in high school enables you to pursue a range of educational opportunities. One avenue you'll want to explore is mechanical engineering. Studying mechanical engineering at Government Engineering College Patan will equip you with a broad education, preparing you for a variety of career paths graduation and providing a solid foundation for continuing education. Mechanical engineering encompasses many areas. In short, anything that involves the design and or manufacturing of mechanical, thermal or electronic devices and or processes falls entrepreneurs, chief engineers, astronauts, faculty, physicians and patent attorneys, among other occupations. The field includes activities such as designing, developing, manufacturing, managing, researching and controlling engineering systems and their components.

VISION

To create a centre of excellence for imparting education in mechanical engineering field to meet the current and future challenges of technological and sustainable development.”

MISSION

- To build enabling environment for excellent teaching, learning and research in order to produce entrepreneurs and innovators in the field of Mechanical Engineering for sustainable improvement.
- To impart adequate fundamental knowledge, technical and soft skills to students.
- To develop Mechanical Engineering solutions for the problems of industry and society.



Programme Educational Objectives (PEOs)

- 1.To prepare graduates with a technical knowledge of mathematical, scientific, engineering, technology, management, humanities and various other interdisciplinary subjects for a successful career.
- 2.Graduates will apply the knowledge of Mechanical Engineering to solve real Engineering problems for sustainable development.
- 3.To inculcate graduates with leadership skills with high level of integrity, Professional personality and ethical values.
- 4.To equip graduates with modern tools, technology and advanced software's for deliberating engineering solutions.

Programme Specific Outcomes (PSOs)

- PSO1: Apply the advanced software skills to model, simulate, analyze and optimize Mechanical systems and Processes.
- PSO2: Acquire technical and managerial skills for innovative activities.

DEPARTMENT

SPOTLIGHT



Mr. Shivam Modi our alumni have been awarded "Climate Change Award 2025" dated on 16th Sept, 2025 presented by the Hon. Cabinet Minister Shri Mulu Bhai Bera and Hon. Minister of State Shri Mukeshbhai Patel (Forest , Environment and Climate Change Dept), Govt of Gujarat. This recognition reinforces his commitment towards advancing sustainability, environment & climate awareness, and collective action for greener future.



Arch Patel, a proud alumnus of the Mechanical Engineering Department, 2017 batch, GEC Patan, has achieved a remarkable milestone in his career. After completing his graduation, he moved to South Africa to pursue his passion for aviation. Recently, he successfully obtained his commercial pilot license and is currently undergoing training for other advanced licenses in South Africa. His journey from engineering to aviation is truly inspiring and a proud moment for all of us at GEC Patan.

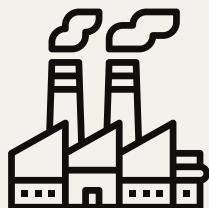


A group of 15 students from the 7th semester of the Mechanical Engineering Department attended the National Additive Manufacturing Conclave 2025 held on 23rd August 2025 at the National Additive Manufacturing Centre – West (NAMCW), Ganpat University, Mehsana, Gujarat. The participation provided them valuable exposure to the latest developments and innovations in the field of additive manufacturing.

Two students from the 7th semester of Mechanical Engineering, Mr. Shaktisinh Zala (230223119034) and Mr. Kapil Rami (230223119021), have been selected for a summer internship through SRTD/RTMG/MISA at the Space Applications Centre (SAC), ISRO, Ahmedabad."

DEPARTMENT

INDUSTRIAL VISIT



On 10/09/2025, an industrial visit was arranged at the National Additive Manufacturing Centre – West, Ganpat University for 7th semester Mechanical Engineering students. A total of 15 students along with two faculty members, Prof. R. A. Oza and Prof. B. B. Patel, participated in the visit. The students learned about various technologies in additive manufacturing and observed live practical demonstrations on different 3D printers. The visit was coordinated by Prof. R. A. Oza.

On the same day, the students visited the marine ship facility at Ganpat University campus. During the visit, they learned in detail about the different types of engines used in ships, including how each engine operates and the function of various components. The students also had the opportunity to explore the ship's structure and understand the importance of each part in ensuring smooth and efficient operations. Furthermore, they experienced the 360° full motion simulator of a naval ship, which provided an immersive environment that replicated real-life sea conditions, allowing them to feel the movements and challenges faced on an actual ship. This hands-on experience gave them a deeper understanding of marine engineering and ship operations.





On 15th September 2025, an industrial visit was arranged at Leak Proof Engineering Pvt. Ltd. for the 3rd and 5th semester Mechanical Engineering students of GEC Patan. A total of 35 students, along with Prof. V. K. Patel and Dr. H. R. Prajapati, participated in the visit, which was coordinated by Prof. V. K. Patel. Students learned about various casting technologies, including mold preparation, material selection, and quality control. The industry experts explained practical applications of manufacturing processes and shared their experiences. The visit helped students connect theory with real-world industrial practices and enhanced their technical understanding.

A visit was arranged for Semester 3 Mechanical Engineering students on 23/09/2025 to the Material Science and Metrology Lab at GEC Gandhinagar. A total of 23 students actively participated in the visit, which was coordinated by Dr. H. N. Panchal. The visit provided students with practical exposure to material science concepts and metrology practices, enhancing their understanding beyond classroom learning.



An industrial visit was arranged on 19/09/2025 to the Gujarat Power Engineering Research Institute (GPERI), Mevad, located on the Ahmedabad-Mehsana highway. A total of 24 students participated, including 18 students from the 7th semester and 6 students from the 5th semester. The visit was accompanied by Dr. K. V. Patel and Dr. M. G. Patel. During the visit, students gained valuable insights into various casting technologies, which enhanced their practical understanding of the subject.



A technical visit was organized on 23/09/2025 at Mahesh Cold Storage, located near Navajivan Cross Road, GIDC Patan, for Semester 3 Mechanical Engineering students. A total of 23 students participated in the visit, accompanied by Prof. N. R. Makavana and Prof. K. H. Thakkar. The visit provided students with practical exposure to cold storage operations and systems, helping them understand real-world applications of engineering concepts.

An industrial visit at the GPERI Mehsana – Electric Furnace and Casting Process was arranged on 19/09/2025 for the 7th semester students. During visit students learnt a practical demonstration of melting, molding, and testing processes in foundry operations. The exposure to materials such as Bentonite sand and their composition, along with modern furnace operations, enhanced our understanding of casting technology. The visit was coordinated by: 1. Dr. K V Patel and 2. Dr. M G Patel. Total 18 students have took part in the visit.





GOVERNMENT ENGINEERING COLLEGE, PATAN
DEPARTMENT OF
MECHANICAL ENGINEERING

Awareness Program on **ADDITIVE MANUFACTURING**



30th July 2025



SESSION COVERAGE:

- Basics of Additive Manufacturing
- Types of 3D printing technologies (FDM, SLA, DMLS, etc.)
- Real-world applications across sectors
- India's National Strategy for AM (NSAM 2022)
- How NAMCW is contributing to the AM ecosystem
- Startups, careers, and skilling in this space





ONE DAY WORKSHOP ON Basics of Production Drawing Using Modelling Software

17 September, 2025

Seminar Hall, MED, GECP

Session Coverage Topics:

- Introduction to Production Drawing
- Overview of Modelling Software in Production Drawing
- Understanding Limits and Fits
- Dimensioning and Geometric Tolerances
- Creating 2D Production Drawings from 3D Models
- Practical Exercise

AUDIENCE

BE 3rd Sem Mech. Engg. Students

COORDINATED BY

Dr. H. R. Prajapti

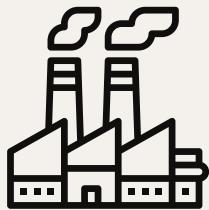
Prof. R. A. Oza



EXPERT LECTURE

Mr. Sanjay Patel

(AGM, Reliance industries Ltd)



An expert lecture on “A Journey to Become Successful Mechanical Engineer” was organized at on 11th August 2025 from 12:00 pm to 1:00 pm. The session was delivered by Mr. Sanjay Patel, Assistant General Manager, Reliance Industries Limited. The lecture aimed to motivate and guide students of mechanical engineering toward achieving success in their professional careers. The lecture was coordinated by: 1. Dr. D K Patel and 2. Dr. H N Panchal. A total of 30 students and faculty members participated in this interactive and insightful session.



Dr. I. B. Dave

(Professor & Head, Metallurgy Department, GEC Gandhinagar)



An expert lecture on “A Journey to Become Successful Mechanical Engineer” was organized at on 11th August 2025 from 12:00 pm to 1:00 pm. The session was delivered by Mr. Sanjay Patel, Assistant General Manager, Reliance Industries Limited. The lecture aimed to motivate and guide students of mechanical engineering toward achieving success in their professional careers. The lecture was coordinated by: 1. Dr. D K Patel and 2. Dr. H N Panchal. A total of 30 students and faculty members participated in this interactive and insightful session.

DEPARTMENT

RESEARCH AND PUBLICATIONS



Dr. Hiren Prajapati, Prof. Bhargav Patel and Prof. Vipul K. Patel published a research paper entitled "Heat input-microstructure-corrosion relationship in auto TIG-welded joints between low-alloy steels (T12, T22, and T91) and austenitic stainless steel (TP347H)" in Welding in the World, Springer Journal, Volume 69, published on 10 November 2025, ISSN: 1878-6669, (Article in Press).



Dr Hitesh Panchal et al. published a research paper entitled "Comparative analysis of AI techniques in pavement preservation materials: ensemble learning, deep learning, and simplified variance-matching diffusion model based data augmentation" in Journal of Big Data, published by Springer Journal, published on 22 November 2025, ISSN: 2196-1115. <https://doi.org/10.1186/s40537-025-01319-y>. ((Scopus & WoS Indexed Journal) (Scopus & SCIE indexed journal, IF: 6.4)



Dr Hitesh Panchal et al published a research paper entitled "Numerical analysis of phase change material placement and temperature effects in cold storage systems" in Alexandria Engineering Journal, published by Elsevier Journal, published on October 2025, ISSN: 1110-0168. Volume 129, Pages 1024-1038.



Dr. Hitesh Panchal et al. published a research paper entitled "Enhancing solar still evaporative yield through precise neutrosophic fuzzy modeling: regional assessment in Indian coastal regions". J Therm Anal Calorim (2025). <https://doi.org/10.1007/s10973-025-15093-9>(Scopus & SCIE indexed journal, IF: 3.2).



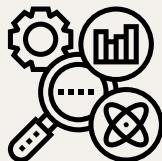
Dr. Hitesh Panchal presented review paper entitled "Current research and future innovations on High entropy alloys for Hydrogen storage" during 16th International Conference on Interdisciplinary Research for Sustainable Development (IRSD) held virtually on 25 December 2025, organized by International Institute of Organized Research - I2OR, Online mode.

UK DESIGN CERTIFICATE

Hitesh Panchal, design "Energy efficient pyramid solar still", design number: 6464827 granted on 06th October 2025 by Intellectual property office, UK

DEPARTMENT

RESEARCH AND PUBLICATIONS



Anand B. Dhruv et al. published a research paper entitled “An Impact of reinforcement on Aluminum metal matrix composites: A critical Review” in International journal of Computational and Experimental Science and Engineering, published on 10 September 2025. <https://doi.org/10.22399/ijcesen.3128>



Anand B. Dhruv et al. published a research paper entitled “Non-Linear Vibration Analysis Of Ball Bearing SKF 6205 At Different Speed Condition” in JOURNAL OF APPLIED BIOANALYSIS, December 2025 p. 403-413 10.53555/jab.v11i6.1759 (ISSN 2405-710X) Vol. 11, No. 6s

SCHOLAR GPS

- Hitesh Panchal, honoured as a 2025 Highly ranked Scholar – Prior Five years in the field in “All fields of Scholarly Endeavour” as conferred by Scholar GPS in recognition of exceptional productivity, noteworthy impact and quality of scholarly work in the top 0.05% of 30 million Scholars worldwide.
- Hitesh Panchal, honoured as a 2025 Highly ranked Scholar – Prior Five years in the field of “Engineering” as conferred by Scholar GPS in recognition of exceptional productivity, noteworthy impact and quality of scholarly work in the top 0.05% of 30 million Scholars worldwide.
- Hitesh Panchal, honoured as a 2025 Highly ranked Scholar – Prior Five years in the specialties of “Energy harvesting and, Energy” as conferred by Scholar GPS in recognition of exceptional productivity, noteworthy impact and quality of scholarly work in the top 0.05% of 30 million Scholars worldwide
- Hitesh Panchal, honoured as a 2025 Highly ranked Scholar – Prior Five years in the discipline of “Mechanical Engineering” as conferred by Scholar GPS in recognition of exceptional productivity, noteworthy impact and quality of scholarly work in the top 0.05% of 30 million Scholars worldwide

DEPARTMENT

TRAINING ATTENDED



Prof. N R Makvana took part and successfully completed a 12 weeks NPTEL MOOC (FDP) course on "Environment and Development" from IIT Guwahati through Swayam Portal during July to October 2025.



Dr. H R Prajapati took part and successfully completed a 12 weeks NPTEL MOOC (FDP) course on "Copyright and Related Rights Law" from IIT Madras through Swayam Portal during July to October 2025.



Prof. D J Parmar took part and successfully completed a 12 weeks NPTEL MOOC (FDP) course on "Introduction to Python and Petroleum Data Analytics" from IIT Dhanbad through Swayam Portal during July to October 2025.



Dr. Anand B Dhurv has successfully participated & completed Workshop under AICTE - Vibrant Advocacy for Advancement and Nurturing of Indian Languages (VAANI) on Space and Defence Applications with Advance Composite Materials in Gujarati language at L. D. COLLEGE OF ENGINEERING from 07/10/2025 to 09/10/2025

AICTE QIP PG CERTIFICATE PROGRAMME



Dr. Hitesh Panchal has successfully completed AICTE QIP PG Certificate programme in "Advanced Metallic alloys for Energy Storage Applications" conducted during June – December 2025 at SVNIT Surat and secured 10/10 CGPA.

FACULTY

PARTICIPATIONS AND ACHIVEMENTS



Dr. H R Prajapati had delivered an expert lecture on “Impact of Research on Quality Parameters in NBA Accreditation” at Faculty of Engineering and Technology, Ganpat University on 26/07/2025.

Dr. H R Prajapati became a jury member in the event “Research Convention 2025” at "Faculty of Engineering and Technology, Ganpat University on 27/09/2025

Dr. Anand Dhruv's student, Parmar Manishkumar Navinchandra, has successfully completed his Ph.D. from Gujarat Technological University in August 2025.

Dr Hitesh Panchal secured top 2% Scientists excellence in the field of energy and glorious achievement continuously from 2019.



In reference to the invitation received from Ganpat University for the National Additive Manufacturing Conclave 2025 held on 23rd August 2025 at the National Additive Manufacturing Centre – West (NAMCW), Ganpat University, Mehsana, Gujarat, the following faculty members of the Mechanical Engineering Department attended the program: Prof. R. A. Oza, Prof. N. R. Makvana, Dr. H. R. Prajapati, Dr. K. V. Patel, and Dr. H. N. Panchal.

ACHIEVEMENTS



Memorandum of Understanding (MoU) between Government Engineering College and Ganpat University (GUNI) was signed on 9 October 2025 during the Vibrant Gujarat event, with the objective of strengthening collaboration in academics, research, innovation, and industry engagement. The MoU focuses on joint academic initiatives, faculty and student development programs, collaborative research, skill development, and knowledge exchange, aiming to leverage the strengths and resources of both institutions to enhance quality technical education and contribute to sustainable technological and societal development.

FACULTY AND STAFF



Dr. Anand Dhruv

Designation : Professor
Qualification : Ph. D
Experience : 35 Years
Area of Interest : CAD-CAM, Metal Forming, Automobile Engg, Manufacturing Engg
Email : anand.dhruv@gecpatan.ac.in



Dr. Dineshkumar Patel

Designation : Professor
Qualification : Ph. D
Experience : 34 Years
Area of Interest : Solar Energy
Email : dinesh.patel@gecpatan.ac.in



Prof. Rahul Paliwal

Designation : Associate Professor
Qualification : M. E
Experience : 31 year
Area of Interest : Cryogenic Engineering
Email : paliwal_rahu@gtu.edu.in



Dr. Utkarsh Arvindbhai Patel

Designation : Associate Professor
Qualification : Ph. D.
Experience : 21 Years
Area of Interest : Mechanical Machine Design
Email : utkarsh671975@gmaail.com



Dr. Kaushikkumar Patel

Designation : Assistant Professor
Qualification : Ph. D
Experience : 19 Years
Area of Interest : Machine Design
Email : kaushik.patel@gecpatan.ac.in

FACULTY AND STAFF



Prof. Dipak Parmar

Designation : Assistant Professor
Qualification : M.Tech (I.C. & Automobile)
Experience : 19 Years
Area of Interest : Jet propulsion and gas turbine
Email : dipak.parmar@gecpatan.ac.in



Prof. Chiragkumar C. Patel

Designation : Assistant Professor
Qualification : M.Tech.
Experience : 19 Years
Area of Interest : Thermal Science and Engineering
Email : ccpatel09@gmail.com



Dr. Miteshkumar Govindbhai Patel

Designation : Assistant Professor
Qualification : Ph. D
Experience : 19 Years
Area of Interest : Production
Email : mitesh.patel@gecpatan.ac.in



Prof. Kamlesh Hasmukhlal Thakkar

Designation : Assistant Professor
Qualification : M. Tech
Experience : 14 years
Area of Interest : CAD/CAM
Email : kamlesh.thakkar@gecpatan.ac.in



Prof. Bhargavkumar Patel

Designation : Assistant Professor
Qualification : M. Tech
Experience : 14 years
Area of Interest : Parametric Optimization, Non Conventional Machining Processes, Finite Element modelling.
Email : bhargav.patel@geccpatan.ac.in

FACULTY AND STAFF



Prof. Vipulkumar Kashirambhai Patel

Designation : Assistant Professor

Qualification : M.E.

Experience : 14 years

Area of Interest : CAD/CAM

Email : vipul.patel@gecpatan.ac.in



Prof. Narendrasinh Ramjibhai Makvana

Designation : Assistant Professor

Qualification : M.E. (IC/Auto)

Experience : 14 years

Area of Interest : IC/Auto

Email : narendrasinh.makvana@gecpatan.ac.in



Dr. Hitesh Panchal

Designation : Assistant Professor

Qualification : Ph. D

Experience : 14 years

Area of Interest : Solar Thermal, Solar Photovoltaic, IC Engine

Email : engineerhitesh2000@gmail.com



Prof. Rakesh A. Oza

Designation : Assistant Professor

Qualification : M. E.

Experience : 14 years

Area of Interest : CAD-CAM

Email : rakesh.oza@gecpatan.ac.in



Dr. Hirenkumar Rameshbhai Prajapati

Designation : Associate Professor

Qualification : Ph. D.

Experience : 15 Years

Area of Interest : Design, Dynamics and Manufacturing, CAD-CAM

Email : hiren.prajapati@gecpatan.ac.in

FACULTY AND STAFF



Prof. Chirag P Kadiya

Designation : Assistant Professor

Qualification : B.E.

Experience : 19 Years

Area of Interest : Power Plant Engineering

Email : cpkadiya@gecpatan.ac.in



Prof. Kiran K. Rabari

Designation : Assistant Professor

Qualification : M.E.

Experience : 17 Years

Area of Interest : CAD-CAM

Email : rabarikiran15@gmail.com



Prof. Dharmesh K. Patel

Designation : Assistant Professor

Qualification : M. Tech.

Experience : 15 Years

Area of Interest : Manufacturing

Email : rabarikiran15@gmail.com



Shri. Rakesh V. Patel

Designation : Lab Assistant

Qualification : D E

Experience : 15 year



Ms. Priyanka J. Patel

Designation : Lab Assistant

Qualification : B E

Experience : 15 year

DEPARTMENT

LABORATORIES



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 nonconventional 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.



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.

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 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. In this lab, performance optimization of engine parameters like power, fuel consumption and emissions etc are being taught to the students.



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, Gyroscope etc.



Computer-Aided Design (CAD) Lab:

This lab is facilitated It is having computer systems with high-end configurations to ensure seamless performance to support students in design, simulation and analysis tools essential for modern engineering applications. The CAD Lab has 30 computers, with 12 PCs equipped with ANSYS for simulation and analysis, while all have Autodesk software for drafting and design.

LABORATORIES



Fluid Mechanics and Fluid Power Engineering Lab:

This laboratory helps students to understand the principles of fluid behavior and hydraulic machinery operations. It offers hands on experience with devices like flow meters, pumps, turbines, and hydraulic systems. Experiments cover fluid properties, flow measurement, and performance testing of machines. The lab enhances practical knowledge of theoretical fluid mechanics concepts learned in classrooms.



Automation in Manufacturing Lab:

The laboratory component of the Automation in Manufacturing course aims to provide hands-on experience with automation technologies used in manufacturing industries. Through practical experiments, students will explore industrial robotics, flexible manufacturing systems (FMS), and automation machinery. The lab exercises are designed to reinforce theoretical concepts and develop problem-solving skills for real-world automation challenges.



Basic Mechanical Engineering Lab:

The Basic Mechanical Engineering Laboratory provides practical exposure to fundamental mechanical systems and components. It includes models of boilers along with their mountings and accessories, helping students understand steam generation and safety mechanisms. The laboratory also features internal combustion (IC) engine models, including four-stroke and two-stroke petrol and diesel engines, enabling students to study engine components, working principles, and thermodynamic cycles.



Engineering Graphics & Design Lab:

Engineering Graphics & Design (EGD) is a vital subject that enables students to communicate engineering ideas, designs, and concepts in a clear and precise manner. The laboratory has several shapes of 2D & 3D models, which will be helpful in the visualization and understanding of the subject.

DEPARTMENT MAP



GROUND FLOOR

