

G H Patel College of Engineering & Technology

(A Constituent College of CVM University)

About GCET:

Shri Gordhanbhai Hathibhai Patel, an eminent philanthropist of Gujarat, made a generous donation of Rupees Three Crores for the new college. In honour of this magnanimous gesture, the college has been named G H Patel College of Engineering and Technology, popularly known as GCET. GCET is managed by Charutar Vidya Mandal (CVM), a registered charitable trust established in 1945. Since its inception the trust has been striving for the upliftment of rural society through education.



We have highly learned faculty members in GCET. Almost more than 30% faculty members have IIT/NIT exposure at masters/PhD level. Our faculty members have extensive education experience. GCET students have also created many milestones in their academic carrier. Under Sardar Patel University we have total 57 gold medalist students from various under graduate disciplines. While with the Gujarat Technological University, our students are continuously achieving top ranks in top 100 students as a result of this GCET always stood in top 10 institutes of GUJARAT. From academic year 2020-21 the GCET is one of the constituent colleges under CVM University.

Vision

"To produce engineering graduates who are globally competitive, live by set of core values, are able to accept any professional challenge thrown at them, and remain responsive to the needs of India and the humanity. "

Mission

"To foster a stimulating learning environment, develop excellence amongst students, faculty and staff in every activity GCET carries out and thereby aim to become one of the best premier technical institutes of the country."

Quality Statement

"We, at GCET, will continuously strive to become and remain leaders amongst technical education institutions in India through constant improvement in teaching-learning process, continuous interaction with industry through consultancy, combined development project and providing an intellectual environment conducive to lifelong learning."

We carry out various students' activities like- Cultural Programs, Sports Activity, Project Club, Organizing Technical Events etc. GCET gives equal importance to these activities.



GCET : AICTE IDEA LAB

GCET is one of two institutes in Gujarat that received a Rs. 1.14 crore grant from AICTE to establish the IDEA lab.

About IDEA Lab

Vision of the IDEA Lab is to build a robust eco-system for nurturing innovation and start-ups which will in turn drive sustainable technical and economic growth and generate large-scale employment opportunities throughout the nation.



Further, an Idea Lab would be set up to pool the innovative ideas of students and to test their feasibility using various equipments, tools, and consumables available under one roof for the conversion of an idea into a prototype. Furthermore, the Idea Lab would extend and go beyond the academic campus or a nearby region, and collectively it could be the Nation's Idea Lab. IDEA Lab will open 24x7 for Student Start-ups/projects/internships, Training of Faculty, School Teachers and students, Industries, ITI, Diploma Students etc...

Objectives

- To provide all facilities under one roof for the conversion of an idea into a prototype.
- Training in the 21st century skills- critical thinking, problem-solving, collaboration etc.
- Making engineering students more curious, imaginative, and creative; engineering education more engaging.
- IDEA lab will be centered around activities and events to promote multidisciplinary education and research.

Infrastructure of IDEA Lab

The FDM 3D Printer, 3D scanner, CNC wood router, CNC turning center, Co2 laser cutter & engraver, welding machine, pipe bending, SLA 3D Printer, PCB drilling machine, and many other electronics and computer side equipments will be purchased by GCET IDEA Lab.

All the resources required to turn an idea into a prototype will be housed in the GCET IDEA Lab. The GCET IDEA Lab would serve as a base for faculty to engage in and promote multidisciplinary education and research. As a result, faculty would be encouraged to participate in these labs and strive to create problems/projects/ internships in their own subjects/disciplines while mentoring students. The idea does not always have to be novel (though it is always encouraged), but the emphasis would be on graduating engineers working with their hands and using tools and equipment. Because these facilities are available on the GCET campus 24 hours a day, seven days a week, more students and faculty will be encouraged to engage in creative work while also receiving training in creative thinking, problem solving, collaboration, and other skills that traditional labs do not emphasize. The emphasis will be on teaching students to be imaginative and creative, and to maintain that level of creativity in the workplaces they join. The ultimate goal of a lab like this at GCET college is to transform engineering education.

To utilization IDEA Lab at GCET kindly visit the GCET College website for registration.
<https://www.gcet.ac.in/index.php>.

You can visit and subscribe our YouTube channel **AICTE IDEALab: GCET** for various learning videos.

For more information and utilization about IDEA lab kindly connect Dr. Vijay Makwana, (vijaymakwana@gcet.ac.in) M- 9825783644, Prof. Bhavik Ardeshana, M- 7990165209, (bhavikardeshana@gcet.ac.in).

Snapmaker 2.0 Modular 3-in-1 3D Printer



From 3D printing to laser engraving, cutting, and CNC carving, the Snapmaker 2.0 Modular 3-in-1 3D Printer unleashes your entire creative potential. It is a new generation of 3-in-1 3D printer that comes with everything you need, and it is smarter, faster, bigger, and more powerful than ever before.

Formlabs Form 3B+ SLA 3D Printer



With the Form 3B+, an innovative desktop 3D printer built for dental professionals, you can quickly produce accurate, high-quality dental models, appliances, and prosthetics.

Zortrax M300 Plus 3D Printer



The Zortrax M300 Plus 3D printer is built to withstand several extended printing cycles that are typical of a machine of that size. It provides low-maintenance costs and compatibility with a wide range of filaments thanks to its high-quality components.

Artec Eva 3D scanners



Artec™ Eva is a 3D scanner that works like a video camera. Turn it on and walk around the thing you want to film. The scanner can take up to 16 frames per second, each of which represents a three-dimensional picture. These frames are automatically aligned in real-time. This means you can see what you've previously caught, and which parts of the object require additional attention while scanning. Scanning is simple and quick with this real-time feedback.

CNC Turning Centers DX 200-3



DX 200 series, developed from continuous research and invention since Jyoti began CNC machine tool manufacture, serves as a platform to perform more on high productivity and better surface quality for revolutionary and competitive market. The series is the most demanding because to its stiff step-up structure and design, which allows for a wide variety of workpiece dimension variations.

- Swing Over Bed: 500 mm
- Std. Turning Diameter: 250 mm
- Max. Turning Diameter: 320 mm
- Max. Turning Length: 320 mm

Graphtec cutting plotter CE7000



CE7000 has sufficient cutting performance in terms of cut pressure, cut speed, and extended media feeding performance.

Wood Engraving CNC Rotary Router MT-1325



Wood, plastic, aluminium, and high-density foam are among the materials that CNC routers can cut. Computer numerical control, or CNC, refers to machines that are controlled by computer software and electronics rather than by a human operator. CNC routers, which operate on computers, are quicker and more precise than humans, making them useful in production.

Applicable Materials:

MDF, Wood, Wave Panel, Aluminium Panel, Inscribed Wooden Slip, PVC, Board, Corian Sheet, Acrylic etc.

Applicable Industries:

Signage, Interior, Wooden, Handicraft etc.

Electronics Equipments

PCB Drilling and Milling Machine for PCB Fabrication, Soldering Station & SMD Rework Station, Temperature controlled Soldering Station, and other electronics equipment are available in the GCET IDEA Lab.

Mechanical Equipments

GCET IDEA Lab has a variety of mechanical equipment for constructing engineering models, including an electric pipe bending machine, a tool cutter grinder, mechanical hand tools, and power tools.

CO₂ Laser Cutting and Engraving Machine MT-1410T



M-tech CO2 Laser Cutting Machine Laser engraves and cuts a broad range of materials, including acrylic, MDF, paper, fabrics, leathers, wood, plastics, and more, at fast speeds and with the highest quality engraving and cutting precision.

Electronics Engraving, Wood Engraving and Cutting, Marble and Stone Etching, Glass Etching, Corporate Giveaways, Signage, Wedding Memorabilia, Nameplates and Desk sets, Appliques, Toys and Games, wooden models, plot albums, holiday decorations, Laser cut cards and invitations, custom jewelry, corporate and sporting awards, acrylic plaques, architectural models, Photo Engraving, Logo Engraving on parts, Trophy and corporate gift industries, Fabrics, and textile industries.