

ACADEMIC YEAR

**2021-22**

**AT A GLANCE**



GOVERNMENT ENGINEERING COLLEGE

**PALANPUR**

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## VISION AND MISSION

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### VISION

"To be a leading technical institute facilitating transformation of human resources into socially responsible engineering professionals for sustainable development"

### MISSION

- (1) To achieve academic excellence by developing state-of-the-art laboratories and academic infrastructure.
- (2) To create an ecosystem that promote value based technical education, innovation and entrepreneurship for sustainable development.
- (3) To contribute to industry and society by providing technical and consultancy services.
- (4) To enhance technical competencies of human resources by providing need base trainings and quality improvement programs.



**ESTD : 2009**

**अभियान्त्रिकीज्ञानम् जनकल्याणम्**

## MESSAGE OF THE PRINCIPAL

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Welcome you all,

I hope you are in good health and spirits!

Technical Education contributes towards sustainable development of the nation. As Bharat aims to become knowledge power by 2030, with rapid increase in the quantity of technical students – more focus is required on conceptual clarity, competency, creativity and cognitive skills of graduates. A quality degree level technical education must enable personal accomplishment and enlightenment, constructive public engagement and productive contribution to society. The purpose of quality education is more than the creation of greater opportunities for individual employment. NEP 2020 envisions a complete transformation of higher education to overcome national and global challenges. The digital skilling program in emerging and future technologies is focussing on skilling, reskilling and upskilling students via internships, apprenticeships and employment to one crore students.

The institute is constantly focussing on transformation of young human brains into socially responsible professionals for sustainable development. Continuous efforts have been applied by our young and dynamic professors to ensure outcome-based education (OBE). UG Mechanical Engineering program received the status of NBA Accreditation till 2025, is the result of dedicated efforts/involvement of all stake holders towards OBE. The ecosystem to nurture innovation, research and entrepreneurship is in practice with the support of government and institutional initiatives. In year 2021-22 faculty and students published four patents and two proof of concepts in the field of renewable energy and environment. Inline with digital skilling program mandatory internships for all final year engineering students are in practice. Various student clubs are motivating and supporting students for skilling in emerging and future technologies. Almost all faculties are engaged with various activities/initiative for cumulative professional development and overall development of students and institute at large.

I on behalf of the institute express heartfelt gratitude to all stakeholders upholding the values embodied in the vision and mission. I ensure you to provide quality technical education to students and transform them into socially responsible, competent professional engineer for their services to the nation. What we all need is dedicated involvement of student in respective program, participation in campus activities, patience, optimism and firm faith in nature. Every student shall spend 40-50 hours/week towards his career building. Our dedicated professors will mentor you for opportunities available for you according to your life goals. We must remain positive and keep our hope alive. You are free to contact the counsellor and if needed you are most welcome to send your questions, queries, problems or suggestions at my official email address.

Let's learn together and contribute best to the nation "Bharat" !

All the best! Stay home, stay safe. This too shall pass. God bless!

Dr. K. B. Judal

### Civil Engineering Department

Dear students,

Welcome to the department of civil engineering at government engineering college, Palanpur. Civil engineers design, construct, supervise, operate, and maintain large construction projects and systems, including roads, buildings, airports, tunnels, dams, bridges, and systems for water supply and sewage treatment. Civil engineering is one of the most critical disciplines for providing solutions for an ever changing society, whether it's a roads and bridges that we drive on, the foundations and buildings that we occupy in or the clean air and water that we need. The role of civil engineers are everywhere and will become even more essential for developing the nations like India.

Our fully dedicated senior and qualified faculty members look forward to continuing our leadership in preparing the future technocrats in the field of civil engineering, engineering leaders that are capable of engaging in new technologies in the field of civil engineering and providing effective solutions to complex civil engineering problems. We have started consultancy services to the construction industries and rural areas. Our faculties are actively engaged in providing outstanding educational as well as practical exposure to the students..

With this, I wish all of you good luck and have pleasant and wonderful four years journey at civil engineering department, GEC, Palanpur

Prof. P. C. Vasani

### Electrical Engineering Department

It's my honour to welcome you to the Department of Electrical Engineering and our great community of intellectual. The department of electrical engineering was established in 2009 along with the inception of the institute and is affiliated to the Gujarat technological university, Ahmedabad. The department is well equipped with all major laboratories like basic electrical engineering lab, electrical machine lab, control laboratory and others. We are a team of 10 highly qualified, dedicated and experienced faculty members who encourage the students to develop problem solving skills and research attitude. The faculties of electrical department are actively engaged with colleagues in taking pivotal technical problems of society. We not only teach regular curriculum to the students, but also mentoring them regularly. Being a head of department i except each in his or her path should be a leader.

The department has been blessed with many good students since its inception. Many of them are serving at good position in the industries and government sectors. Some of our students have preferred higher studies in the reputed Indian/foreign universities. We regularly arrange an industrial visit for our students to explore their practical skills. Our department is committed for providing excellence in classroom infrastructure, enrichment of the academic and professional experience of students, outreach to the engineering community and society, and advancement in electrical engineering. We are trying our best to transform the knowledge, wisdom, confidence, responsibilities, optimism, motivation, persistence, strong work ethic, self-advocacy, and awareness to our students.

Prof. Bhavesh R. Patel

## Mechanical Engineering Department

I am really delighted to tell that the department stands on the strength of experienced and well qualified faculty who are very dedicated to teaching and also involved in up-gradation of knowledge. Their research experience will help to cultivate the future of our students.

We care for our students like their parents and have an effective mentoring system to counsel them regularly. I am confident; our students will always make us proud from their performances wherever they are.

Our department looks forward to contributing to solving the technological challenges of the society with active participation from all sections of the society.

Lastly, I feel appreciative of our department and college to have continued education through successful functioning of online teaching and webinars for our students in this tough time of COVID-19 pandemic. Now we have switched over the conventional methods of teaching with blending of the online teaching learning concept. Recently we have been accredited by National Board of accreditation, New Delhi (NBA) for the year 2022-2025. All the faculties and staffs members put tiredless efforts for the same. Congratulations to all students, faculties and others who have derictely and inderictely involved in the process of accreditation.

I wish to all students for better future and contribute for national development by giving best of their abilities.

Prof. Dr. J.A. Vadher

## Mining Engineering Department

The Department of Mining Engineering at GEC, Palanpur is one of only two departments in Gujarat that educates professional graduate mining engineers. We have significant undergraduate student numbers that are well accepted in the market. The department is in a healthy state, which serves as a sound foundation for future development of its teaching, research and community service; our undergraduate programme is complemented by our various institutional level programs that provide the non-technical skills that are required to thrive in the industrial revolution. The development of our students as future managers and technical specialists remains a priority and the development of life skills and responsible leadership through participation in student activities is continuously encouraged.

Prof. H. B. Patel

## Training & Placement Officer

Government Engineering College Palanpur, Eastablished in 2009 is a one of the premier Technical Institute in Northern Gujarat under Directorate of technical education, Gandhinagar, Government of Gujarat. The college is affiliated to Gujarat Technological University (GTU) and has recognition of All India Council of Technical Education (AICTE).

Government Engineering College, Palanpur is a leading Technical Institute in the Banaskantha district grooming the talents of rural youth by propagating globally acceptable education, industrial training and research oriented output. The institute is spreaded in 15 Acres of Land on Palanpur-Ahmedabad Highway near Jagana Village, 6 Km from Palanpur, North Gujarat.

We are developing young graduate engineers in following four disciplines:

- (1) Civil Engineering
- (2) Electrical Engineering
- (3) Mechanical Engineering and
- (4) Mining Engineering

We at Government Engineering College Palanpur take care to groom our students according to the needs of the industries. Our students undergo industrial training during their final year vacation in reputed industries/organizations/institutions, as a part of their academic provisions. Our students get a lot of industrial exposure by their frequently arranged industrial visits.

We are also taking care to groom the students for their overall development through finishing school program arranged at our Institute. In Finishing School Program students are trained for Life Skills, Employability skills, English Functional Skills etc.

Mega Placement camp at Government Engineering College Palanpur was organized in Zone 2, Node 2 for Banaskantha District three times. The Mega Placement Camp was a state level event under the auspices of Government of Gujarat and it has been organized by Education Department and Knowledge Consortium of Gujarat (KCG) jointly at various places in Gujarat. The Final year Students belonging to different disciplines such as Degree Engineering, Diploma Engineering, Commerce, Arts, Sciences of Government and Grant-in-aid institutions of banaskantha district have participated in the camp. This Placement Camp aims to serve as a convenient platform between the industries and the final year students of the various colleges. It has provided a good opportunity for both the stakeholders.

It gives us immense pleasure to extend to you a most cordial invitation to participate in the Campus Recruitment Programme of the Government Engineering College Palanpur. Now, more than ever, the emphasis is on Institute-Industry Interaction, and both the Institute, conducting the Campus Recruitment Program, and the Industry expressing their interest in the same, are bound to find it mutually beneficial.

Please feel free to contact the Training & Placement Office.

Looking forward to a jointly positive relationship and with regards,

Dr. N. A. Patel



## **ACADEMIC EXCELLENCE**

## ACADEMIC EXCELLENCE

### A. SSIP

#### Activities Summary:

Achievement of SSIP 1.0	
Total Grant Received	11.90 lac
Total Student Sensitized	1400
Total PoC Supported	18
Grant Utilized in PoC	3.90 lac
Student Benefitted in PoC	50
Utilization of Incubation Center	1300 Hours
Work Shop / Seminar Arranged	7

#### Smapple of Supported PoCs during SSIP 1.0:



### **Institute Visited for Sensitization during SSIP 1.0:**

- G. D. Modi Arts and Commerce College, Palanpur
- R. R. Mehta Science College, Palanpur
- Government Polytechnic, Palanpur
- K. D. Polytechnic, Patan
- M. K. College of Engineering, Patan
- Hansaba College of Engineering, Siddhpur
- Government Arts and Commerce College, Tharad
- Podar International School, Mehsana

**Dr. N. A. Patel**


## B. Other Self-Learning/Online Learning Facilities


### NPTEL, Virtual Lab, Moodle, E-Learning

SR. NO.	BRANCH	ONLINE SELF/OPEN LEARNING SOURCE/FACILITY	TYPE OF MATERIAL AVAILABLE/PROVIDED
1.	Civil	<a href="http://nptel.ac.in/">http://nptel.ac.in/</a>	Video lectures
2.	Civil	<a href="https://ocw.mit.edu/courses/civil-and-environmental-engineering/">https://ocw.mit.edu/courses/civil-and-environmental-engineering/</a>	Teaching materials used in classrooms
3.	Civil	<a href="https://www.vlab.co.in/">https://www.vlab.co.in/</a>	Virtual Laboratory Experiments
4.	Civil	<a href="https://classroom.google.com/">https://classroom.google.com/</a>	Teaching materials used in classrooms
5.	Civil	<a href="https://www.youtube.com">https://www.youtube.com</a>	Video lectures & Laboratory Experiments
6.	Electrical	<a href="http://nptel.ac.in/">http://nptel.ac.in/</a> (NPTEL)	Video Lectures
7.	Electrical	MS TEAMS	Class notes, Active Learning Assignments given to students for interactive learning methods
8.	Electrical	Opened Old DC Motors of CAR and showed the internal parts of DC Machine and working of the DC Motor	BEE Practical
9.	Electrical	Used the realtime bill for calculation of electricity bill of individuals	BEE Practical
10.	Electrical	Virtul Lab	Lab Practicals
11.	Electrical	SCILAB	Programming
12.	Electrical	<a href="http://nptel.ac.in/">http://nptel.ac.in/</a> (NPTEL)	Video Lectures
13.	Mechanical	<a href="http://vlabs.iitb.ac.in/vlab/">http://vlabs.iitb.ac.in/vlab/</a>	Laboratory Experiments
14.	Mechanical	<a href="https://sites.google.com/view/napatelgec/">https://sites.google.com/view/napatelgec/</a>	Class notes, assignments, tutorials
15.	Mechanical	<a href="http://ocw.mit.edu/">http://ocw.mit.edu/</a>	Teaching materials used in classrooms
16.	Mechanical	<a href="http://nptel.ac.in/">http://nptel.ac.in/</a>	Video lectures
17.	Mining	<a href="http://nptel.ac.in/">http://nptel.ac.in/</a>	Video lectures, Teaching materials used in classrooms
18.	Mining	Slideshare.net	Teaching materials used in classrooms
19.	Mining	<a href="https://drive.google.com/drive/my-drive">https://drive.google.com/drive/my-drive</a>	Lecture notes, Assignments, Study material
20.	Mining	<a href="http://vlabs.iitkgp.ac.in/vlt/project.html">http://vlabs.iitkgp.ac.in/vlt/project.html</a>	Practical/Lab

## C. Major laboratories with major equipments photos and brief description

### CIVIL ENGINEERING DEPARTMENT

<p><b>Surveying Lab</b></p> 	<p>The Surveying Laboratory facilities are located on the ground floor of Civil Engg. block. The lab I/C is Asst. Prof. R. K. Rathod. These laboratories facilitate the students of 1<sup>st</sup>, 2<sup>nd</sup> &amp; 4<sup>th</sup> semester for the courses Basic Civil Engineering (3110004) &amp; Surveying (3140601).</p> <p>Major Equipments:</p> <p>Total Station</p> <p>Electronic Theodolite</p> <p>Digital Plannimeter</p> <p>Plane Table</p> <p>Transit Vernier Theodolite</p> <p>Automatic Level</p> <p>Dumpy &amp; Tilting Level</p> <p>Prismatic &amp; Surveyor Compass</p>
<p><b>Building Construction Lab/Model Room</b></p> 	<p>Building construction is a traditional science which deals with the modern method of sound construction incorporating appropriate use of materials, sufficient strength and permanence, maximum utility, and good proportion and grace. The building design has been the responsibility of the architect, though the building construction has been the responsibility of civil engineer. The aim of the building construction practical is to acquaint civil engineers, architects, builders, contractors, with the basics principles as well as current design practices in the construction of building. Building construction is the process of adding structure to real property or construction of buildings.</p> <p><b>Environment Engg. Lab</b></p> <p>Environmental engineering is a professional engineering discipline and also a branch of civil engineering. In the civil engineering</p>

	<p>Side, it is useful for different infrastructure facilities like water infrastructure, Wastewater infrastructure, Solid waste management etc.</p> <p>Environment Engg. Lab is located on first floor and required well equipped instruments like, PH Meter, Turbidity Meter, Conductivity Meter, Sound level meter Water Quality Analyser, BOD Incubator High Volume Sampler etc.</p> <p>This different equipment is mostly useful for measurement of characteristics of water and waste water.</p>
<p><b>Transportation Engineering Lab</b></p> 	<p>The laboratory of transportation engineering in Civil Engineering Department is well equipped with all the required instruments and equipments that are helpful in the overall understanding and practical knowledge of a student. We have the instruments such as Aggregate Impact Testing Machine, CBR, Los Angeles Abrasion Testing instrument, Crushing Strength Test Apparatus, Hot Air Oven, Ductility Test Apparatus, Penetration Test Apparatus, Flash &amp; Fire Test Apparatus, Viscometer and Bitumen Extractor etc. The following are the list of Practicals to be performed in the laboratory.</p>
<p><b>Computer Lab</b></p> 	<p>Computer Laboratory is having the capacity of 30 computers with separate students' individual interactions to give through understanding of the course of Computer Programming &amp; Utilization.</p> <p>The Computers are installed with basic all software with downloading facilities for the students by providing separate login id to each students. The laboratory is also used by the final year students for their project/research work. The laboratory is well equipped with UPS and Air conditioning facilities</p>
<p><b>Concrete Technology Lab</b></p>	<p>Department has well-equipped laboratories pertaining to Concrete Technology. The Concrete Technology Laboratory is located on</p>

	<p>the ground floor of Civil Engg. block. The lab I/C is Asst. Prof. Y. J. Chauhan. The Concrete Technology laboratory is equipped with basic as well as advanced facilities related to field and laboratory testing for evaluation of properties of cement, aggregate, admixture and concrete.</p> <p>Major Equipments:</p> <ul style="list-style-type: none"> <li>Concrete Mixer</li> <li>Compression Testing Machine (300T)</li> <li>Flexure testing machine</li> <li>Mortar Mixer</li> <li>Motorised sieve shaker</li> <li>Slump Test Apparatus</li> <li>Rebound Hammer</li> <li>Hot Air Ovens</li> </ul>
<p><b>Mechanics of Solids Lab</b></p>	<p>The laboratory is equipped with various equipment, which enable students to comprehend properties of different materials such as hardness, elasticity, ductility, different types of stresses etc.</p> <p>Major Equipments:</p> <ul style="list-style-type: none"> <li>Universal Testing Machine (100T)</li> <li>Rockwell cum Brinell Hardness Testing Machine</li> <li>Izod Impact Testing Machine</li> <li>Friction Slide Apparatus</li> <li>Wheel &amp; Differential Axle</li> <li>Compound Lever Apparatus</li> <li>Moment of Inertia Flywheel, etc.</li> </ul>
<p><b>Geotechnical Engineering Lab</b></p>	<p>The laboratory of Geotechnical engineering in Civil Engineering Department is well equipped with all the required instruments and equipments that are helpful in the overall</p>



understanding and practical knowledge of a student. We have the instruments such as Direct Shear Testing Machine, CBR, Proctor test Automatic Compactor, Laboratory Permeability test, Sieve shaker, Casagrande Apparatus, Core Cutter, Hot Air Oven, Auger, Split spoon sampler, Consolidation Apparatus etc.

## ELECTRICAL ENGINEERING DEPARTMENT

### EEE & EEWS Lab



This laboratory is located at a ground floor of Electrical Engineering block.

This lab can accommodate for the 1st year students. The lab has fully equipped setup tables to carry out numerous fundamental experiments in Electrical Engineering. The experiments are designed to expose students to the practical executions of the fundamental theories of Electrical Engineering. This lab is also use for Electrical workshop in this student their practical work and makes different electrical circuits

Major Equipments:-

Auto Transformer

Choke Coil, Temperature Co- Efficient Kit

Load Bank, Different Measuring Meters, Small DC Motors, Gear Mechanism

### Electrical Machines Lab

This laboratory provides platform to the students to gain knowledge, obtain a learning experience and acquire expertise in understanding the operating Characteristics, speed control, performance Analysis and Testing of Various Electrical Machine. The laboratory is equipped with the experimental set-ups and students are exposed to hands on design experiments. Main Machines of the laboratory are D.C shunt motor, Dc Shunt generator, three phase alternator, three phase





induction motor, Single phase induction motor and Single phase transformer.

Major Equipments:

1. Control Panel of DC Shunt Motor With Ac Generator
2. Control Panel of Dc Shunt Motor
3. Control Panel of Single Phase Transformer.
4. Control Panel of Three Phase Induction Motor
5. Control Panel of 3 Phase Slipring Induction motor D.C. Shunt Generator
6. Control Panel of Dc Compound Motor Generator Set
7. Control Panel of Three phase transformer
8. Control Panel of Single phase induction motor
9. Single Phase induction motor capacitor start & capacitor run
10. 3 Phase Variac
11. Cut section of shaded pole motor
12. Single Phase Transformer
13. Three Phase Variable Choke Coil
14. Single Phase Variac
15. Single Phase Lamp Bank
16. Three Phase Load Bank

### Network and Control Lab



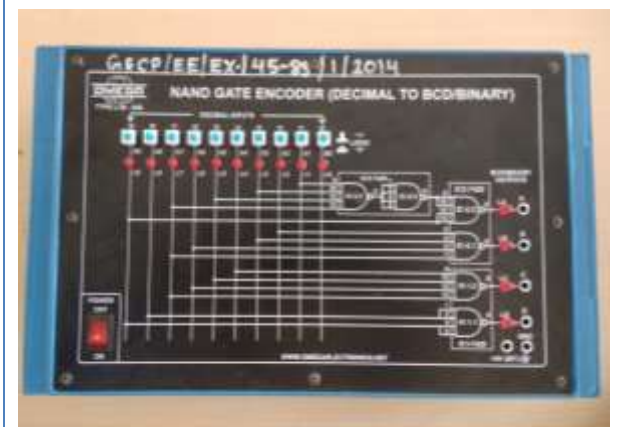
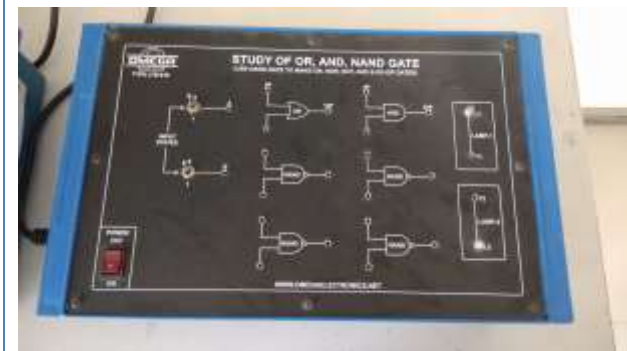
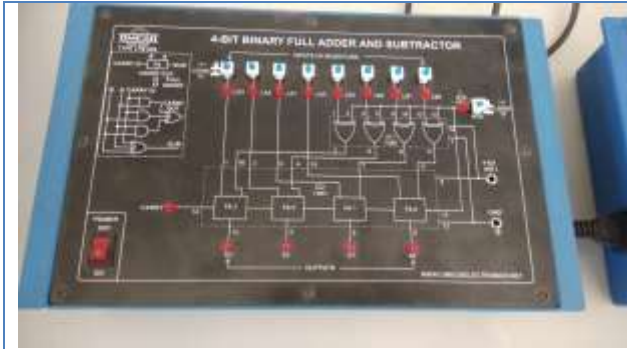
Network and control laboratory is located on the first floor of Electrical Block. This laboratory facilitates the students of 3<sup>rd</sup> and 5<sup>th</sup> semester for the courses Circuits and Network and Control System Engineering respectively. This laboratory allows student to Understanding and predicting system behavior and solve complex network using different techniques.

Major Equipments:

1. Verification of laws and network theorems
2. Two Port Networks Trainer kit
3. Time Response of First and Second order Control system
4. Proportional, Proportional integral and Proportional Derivative Control kit.
5. Type-1 and Type-2 System Test Kit.
6. Open loop and Closed loop control system Test kit.

### Digital electronics Lab

Digital Electronics Lab facilities are located in



the first floor of Electrical block. This laboratory facilitate the students of 4<sup>th</sup> semester for the Digital Electronics course. This Lab consist of all equipment to understand the Digital Adder, Subtractor, Different GATEs, Digital to analog & Analog to Digital Converter,

The Lab explores the concepts of Digital world, like working of various sequential logic circuits, functioning of logic gates, their implementation and verification of truth tables

Major Equipments:

1. 4-bit Binary Full Adder and Subtractor
2. OR, AND & NAND Gate
3. NAND Gate Encoder
4. Shift Register
5. Seven Segment Display
6. 8-Bit Analog to Digital Converter
7. 8-Bit multiplying D/A Converter
8. Dual 4-line to 1-Line Multiplexer
9. Universal Logic Gates
10. Bread Board
11. Function Generator
12. Oscilloscope
13. Multimeter
14. Power Supply



### Power System Lab



The Power System laboratory is located on the ground floor of Electrical Engineering Block. The students of 4<sup>th</sup>, 5<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> Semesters are studying various courses of Power Systems such as Power System-I, Power System-II, Switch Gear and Protection, Power System Operation and Cotnrol, Interconnected Power System, Power System Planning and Design, etc. This laboratory helps imparting practical skills to the students related to the above-mentioned courses.

Major Equipments:

1. Model of Power Generation, Transmission and Distribution system (Made by group o

	<p>students)</p> <p>2. MATLAB Software</p> <p>The purchase procedure for many more equipment related to the above courses is also initiated.</p>
<p><b>Basic &amp; Power Electronics Lab</b></p> 	<p>The Electronics laboratory facilities are located in the first floor of Electrical block. The facility has been developed by Asst. Prof. B. R. Patel. This laboratory facilitates the students of 2nd ,5th and 6th semester for the courses Basic Electronics (2110016) , Power Electronics-I (2150903) and Power Electronics-II(2160902).Electronics lab aims :</p> <p>To provide students engineering skills by way of breadboard circuit design with electronic devices and components.</p> <p>To design and analyze various Electronic circuits such as multivibrators, applications of operational amplifiers, RC coupled amplifiers, oscillators, digital circuits etc. so that students are able to understand the practical aspects of basic electronics theory.</p> <p>To enable the students to simulate and test the Analog, Digital and mixed Electronics circuits. All details of construction and working of every component are clearly exposed.</p> <p>Major Equipments:</p> <ol style="list-style-type: none"> <li>1. IGBT Characteristics trainer</li> <li>2. 30 MHZ D.S.O.</li> <li>3. Function Generator</li> <li>4. AC Chopper</li> <li>5. Step Up Chopper</li> <li>6. Jone's chopper</li> </ol>
<p><b>Electrical Measurement Lab</b></p> 	<p>The Measurementlaboratory facilitates the students of 3<sup>rd</sup> and 7<sup>th</sup> semester for the courses EMMI (2130903) and Industrial Instrumentation (2170913). The Measurement laboratory is involved in all the areas of study, related to measurement and calibration. It is equipped with all measuring instruments, phase shifting transformers, and bridge circuit etc. Here students learn to calibrate the meters, verify theorems, and understand hysteresis</p>



characteristics. Also students perform the experiments and study related to measure a physical quantity in instrumentation courses & other important concepts related to measuring.

Major Equipments:

1. Trainer kits of displacement measurement using synchro, LVDT.
2. AC / DC position control system.
3. Trainer kit temperature measurement
4. Trainer kits of different bridge circuit like Wheatstone bridge, Kelvin's double, Maxwell's L/C bridge, Owen's bridge, Schering bridge etc.

### Analog Electronics Lab



Analog Electronics Lab facilities are located in the first floor of Electrical block. This laboratory facilitates the students of 3<sup>rd</sup> semester for the Analog Electronics course. This Lab consists of all equipment to understand the different configurations of transistor, amplifiers, op-amps and other electronics components for different applications.

Major Equipments:

1. Different Device Characteristic
2. Three Phase Full Wave Rectifier
3. Series And Parallel Resonance
4. Transistor Bias Stability
5. LR Circuit With Source of Alternating EMF
6. Regulated Power Supply
7. Digital Storage Oscilloscope
8. Op-amp Kit

### Computer Lab

The computer laboratory located at first floor and numbered 4114 in electrical engineering department. The lab is of 129 square meters area and fully air conditioned with UPS.

This lab is equipped with 35 PCs having MATLAB, Ansys, Autocad Electrical, DevC etc. installed in it for studying courses like Control system engineering, power system engineering, electrical machine design,



electrical design, C language programming, signals and systems in simulation and programming.

### Microprocessor and Microcontroller Laboratory



This laboratory is located at the first floor of the electrical engineering department having an area of 211 square meters. the lab is fully furnished and equipped with 20 PCs with keil uvision and flashmagic installed for interfacing microprocessor and microcontroller kits and for programming. the lab is equipped with all necessary trainer, user and interfacing kits for studying courses related to microprocessor and microcontroller.

Major Equipments:-

8085 microprocessor trainer kit

8051 microcontroller trainer and user kits

interfacing kits like traffic light control, DC motor control, stepper motor control, switches interfacing, LED interfacing, LCD interfacing etc.

### High Voltage Laboratory



High voltage engineering lab is located in ground floor of Electrical Block. This laboratory facilitates the students 6<sup>th</sup> semester for the courses High voltage engineering.

This laboratory allows student to Understanding of high voltage lab concepts.

Major Equipments:

1. Transformer oli testing kit

**MECHANICAL ENGINEERING DEPARTMENT****Mechanical Measurement and Metrology Lab****Faculty in charge:**

Asst. Prof. A.K. Patel

Mechanical Measurement and Metrology laboratory facilities are located in the Mechanical Workshop block. This laboratory facilitates the students of 4<sup>th</sup> semester for the courses MMM.

**OBJECTIVES**

The objectives of Mechanical Measurements & Metrology lab are

- To demonstrate the theoretical concepts taught in Lecture of Mechanical Measurements & Metrology.
- To understand and use various measuring tools and instruments.
- To understand calibration of various measuring devices.

**OUTCOMES**

The expected outcome of Mechanical Measurements & Metrology lab is that the students will be able

- To understand the basic measurement units and able to calibrate various measuring devices and also instruments.
- To indicate error and correction factors of various measuring devices.
- To use measuring tools such as Sine Bar, Sine Center, Bevel Protractor, Tool Maker Microscope, Gear Tooth Micrometer, Optical Flats etc

**Instruments Available:**

- Gauges,
- Bevel Protector
- Vernier Callipers
- Micrometer,
- Sine Bar,
- Combination Set
- Digital Tachometer
- Gear Tooth vernier
- Screw Thread Micrometer
- Digital Sound Level Meter
- Bevel Protector

**Mechanical Work Shop Block****Laboratories:**

1. Manufacturing Processes-I
2. Manufacturing Processes-II
3. Production Technology

**Mechanical Work Shop Block****Faculty in charge:**

1. Asst. Prof. N.A. Patel
2. Asst. Prof. A.K. Patel

Manufacturing Processes and Production Technology laboratory facilities are located in the Mechanical Workshop block. This laboratory facilities are utilized by the students of 3<sup>rd</sup>, 4<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> semester for the courses MP-I, MP-II and Production Technology.

**Major Equipments:**

- All Geared Lathe Machine
- Universal Milling Machine
- Standard Shaper
- Slotter Machine
- Capstan Lathe Machine
- Drilling Machine
- Up-Right Drill Machine
- Table Top Grinding Machine



- Wood Working Lathe
- CNC Lathe Trainer
- Electro Discharge Machine
- Demonstration Boards:
- Lathe Cutting Tools
- Drill Cutting Tools
- Milling Cutters
- Arc Welding Setup
- Arc Welding Setup
- Gas Welding Setup
- TIG Welding Setup
- Spot Welding Machine
- Sand Casting Setup
- Cop and Drag Setup
- Metal Melting Setup

### CAD LAB



We have 55 pcs available to run appropriate modeling and Analysis/Simulation software and to perform most common computing task.

MATLAB 2019

Ansys



**I. C./Auto Lab**

This laboratory is located at the basement floor of Mechanical block (Room no. 5012). Laboratory has been developed by Asst. Prof. A. D. Patel. This laboratory facilitates the students of 6<sup>th</sup> and 8<sup>th</sup> semester for the courses I. C. Engine (2161902) and Automobile Engineering (2181915). IC/Auto lab aims to develop state-of-art experiments performed by under graduate students related to Internal Combustion Engines performance, instrumentation & control and Automobile vehicles layouts. Various cut sectional equipments contains actual systems, apart from being life-sized. Constructional and working details of every equipments, systems and models are clearly exposed.

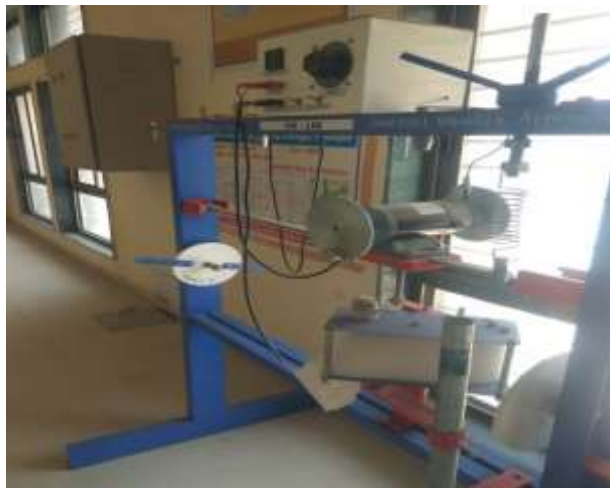
Major Equipments:

1. Cut sectional single cylinder four stroke diesel engine
2. Cut section of four-wheel drive with differential & rear axle.
3. Cut section of four cylinder four stroke petrol engine.
4. Cut sectional two stroke single cylinder petrol engine

During each academic year total 15 experiments are conducted in this laboratory. This laboratory gives great exposers of automobile vehicle systems to the students.

**TOM/ DOM/ KOM Lab**

Mechanisms form the basis of any machine and it is an assemblage of rigid bodies so that they move upon each other with definite relative motion.



Objectives of this Theory of Machines lab/ Kinematics of Machines and Dynamics of Machine lab are to impart practical knowledge on design and analysis of mechanisms for the specified type of motion in a machine. With the study of rigid bodies motions and forces for the transmission systems, machine kinematics and dynamics can be well understood.

Demonstration exercises are provided with wide varieties of transmission element models to understand machine kinematics. Various experiments with governors, gyroscopes, balancing machines and universal vibration facilities are available to understand machine dynamics.

This lab has different table-top model of Pairs and Mechanism where students can study the performance characteristics of those mechanism. Students can strengthen their basic understandings of working and applications of these models.

They can study different types of vibration as well as Balancing Concept, moreover use of sensor in measuring many mechanical parameters such as speed, vibration, amplitude, motion and the acquisition of data in those set-up impart a practical knowledge to the students for designing any experimental set-up.

The facility has been developed for 3rd / 5th and 6th semester students by Asst. Prof. K.V. Patel.

**Thermal Lab:**

Thermal lab is located on the ground floor of Mechanical engineering department block in Room no. 5010. This laboratory equipped with number of test rigs related to following courses for performing the practical on:

1. Heat Transfer
2. Refrigeration and Air Conditioning
3. Power Plant Engineering

Following are the major Equipments of this lab.

1. Heat transfer through composite wall apparatus
2. Test rig for emissivity measurement
3. An apparatus for natural convection
4. An apparatus for force convection
5. Test rig for critical radius of insulation for a cylinder
6. Vapour compression Refrigeration test rig
7. Ice plant tutor
8. Electrolux refrigerator test rig
9. Force draft cooling tower test rig

Charts prepared by the students are also displayed in laboratory for easy understanding of the courses.

### Fluid Mechanics, Fluid Power and Control Engineering Laboratories



Fluid Mechanics, Fluid Power and Control Engineering Laboratories are located at room no 5009 of Mechanical Engineering Department. These laboratories include test rigs and facilities to perform practical of following courses:

1. Fluid Mechanics
2. Fluid Power Engineering
3. Control Engineering

Following are the major Equipments of this lab.

1. Hydraulic Test Bench Rig
2. Centrifugal Pump Test Rig
3. Pelton Wheel Turbine Test Rig
4. Francis Turbine Test Rig
5. Reciprocating Pump Test Rig
6. Reciprocating Compressor
7. Hydraulic trainer with simulation software

### Material Science and Metallurgy



Following are the major Equipments of this lab:

MSM Lab has INVERTED METALLURGICAL MICROSCOP with camera for analysis of microstructures of metals. It is equipped with material Plus software which is useful for students to get colour image of microstructures, report of grain size, report of grain count, report of density and grain distribution. This laboratory also has 23 nos. of ready prepared specimens of steels and cast iron for students to study the course with live microstructure demonstration.



Metallography specimen polishing machine is suitable for the polishing of the specimen which has been grinded. The specimen surface is very smooth after processing and can be used to observe and measure the metallography structure of specimen under microscope.

## D. Laboratory development initiatives:-New purchase and Improvements

### ELECTRICAL ENGINEERING DEPARTMENT

Sr.No.	Equipment Name	Qty	Specification
1	Solar cell characterization kit	1	Capable to perform I-V characteristics of the solar cell/module. It should allow to identify important parameters such as fill factor, open circuit voltage, short circuit current, etc. of the SPV module.

### MINING ENGINEERING DEPARTMENT

Sr. No	Equipment/Model	Qty	Specification
1	Vane Anemometer	1	Air velocity measurement range : 0 - 30 m/s
2.	Shrinkage stoping method model	1	Model designed and prepare by students
3.	Block Caving method model	1	Model designed and prepare by students

## E. Major projects/Minor projects

### CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1.	Internship at Site / Industry	All Staffs

### ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1.	Internship at CAPTAIN PUMPS PVT. LTD.	Prof. B. R. Patel
2.	Internship at Australian premium solar	Dr. A. M. Patel
3.	Internship at Banco production india	Dr. A. M. Patel
4.	Internship at Evergreen Renewable Technologies	Dr. A. M. Patel
5.	Internship at JS SOLAR POWER PROJECTS	Dr. A. M. Patel
6.	Internship at OMNI AUTOMATION	Dr. A. M. Patel
7.	Internship at Powertrac Solar projects Ltd.	Dr. A. M. Patel
8.	Internship at Gayatri Control and Automation Pvt. Ltd	Dr. A. M. Patel
9.	Internship at Fine Trak Systems	Prof. H. N. Chaudhari
10.	Internship at Hem Industries	Prof. H. N. Chaudhari
11.	Internship at J B POWER SOLAR	Prof. H. N. Chaudhari
12.	Internship at Roz industry	Prof. H. N. Chaudhari
13.	Internship at Shivmegh enterprises	Prof. H. N. Chaudhari
14.	Internship at Smit engineering solution	Prof. H. N. Chaudhari
15.	Internship at Urvi Transformer	Prof. H. N. Chaudhari
16.	Internship at V S Industries	Prof. H. N. Chaudhari
17.	Internship at Fortune panel system pvt.ltd	Prof. H. V. Hirvaniya
18.	Internship at Fortune panel system pvt.ltd	Prof. H. V. Hirvaniya
19.	Internship at Megh Automation	Prof. H. V. Hirvaniya
20.	Internship at Miracle Automation	Prof. H. V. Hirvaniya

<b>Sr. No.</b>	<b>Project Title</b>	<b>Name Of Guide</b>
21.	Internship at Motion Automotives	Prof. H. V. Hirvaniya
22.	Internship at Volterix Automation	Prof. H. V. Hirvaniya
23.	Internship at Bhumi Industry	Prof. K.G. Prajapati
24.	Internship at GOKUL AGRI INTERNATIONAL LTD.	Prof. K.G. Prajapati
25.	Internship at Krupa Systems	Prof. K.G. Prajapati
26.	Internship at M.B Transformer	Prof. K.G. Prajapati
27.	Internship at MB ELECTRICAL	Prof. K.G. Prajapati
28.	Internship at Patel transformer co.	Prof. K.G. Prajapati
29.	Internship at Duke Plasto Technique Private Limited	Prof. M. G. Prajapati
30.	Internship at DEEP ELECTRICAL	Prof. M. G. Prajapati
31.	Internship at Wanakbori Thermal Power Plant	Prof. M. K. Patel
32.	Internship at Grasim industry LTD. Indian rayon	Prof. M. K. Patel
33.	Internship at GUJRAT CONTROL SYSTEM	Prof. J. H. Patel
34.	Internship at JOHN ENERGY LTD.	Prof. J. H. Patel
35.	Internship at TRANSFORMERS & RECTIFIERS (INDIA) LIMITED	Prof. J. H. Patel
36.	Internship at VIJAY INDUSTRY (VIKAS ELECTRICAL)	Prof. J. H. Patel
37.	Internship at Smart Forrest Fire Detection System using Arduino with source of Water Tank	Prof. H. V. Hirvaniya
38.	Internship at VISHWAKARMA YOJNA: IX	Prof. H. N. Chaudhari

## MECHANICAL ENGINEERING DEPARTMENT

<b>Sr. No.</b>	<b>Internship</b>	<b>Name of Guide</b>
1.	Alpine Fibc Pvt. Ltd.	All Faculty
2.	Ammann India Pvt. Ltd.	
3.	Banas Dairy, Palanpur (04)	
4.	Chamunda Engineering And Fabrication	
5.	Coach International Techniue Private Limited	
6.	Devdharay Industries (02)	
7.	Duck Pipes Pvt Ltd.(04)	
8.	Echjay Industry Pvt. Ltd.	

<b>Sr. No.</b>	<b>Internship</b>	<b>Name of Guide</b>
9.	Fortuna Engineering Industries	
10.	Gokul Agri International Ltd.	
11.	Gujarat Narmada Valley Fertilizers & Chemicals Limited	
12.	Halleys Kia (Halleys Kia Showroom And Workshop) (04)	
13.	Hle Glascoat	
14.	Indo German Tool Room	
15.	Kirti Engineering	
16.	Kisan Steel Industries	
17.	Mahindra Shivam Sales Corporation (07)	
18.	Maruti Suzuki Arena Vadaj	
19.	N. K. Industries, Ahmedabad (02)	
20.	N.K.P Pharma Pvt. Ltd (05)	
21.	Rajratna Matalics Ltd.	
22.	Rishil Enterprise	
23.	Riya Hyundai - Riya Cars Pvt.Ltd.(02)	
24.	Santosh Engineers	
25.	Shivam Sales Corporation (03)	
26.	Vintech Industries Pvt Ltd (02)	
27.	Yash Autolink Pvt. Ltd (09)	

### MINING ENGINEERING DEPARTMENT

<b>Sr. No.</b>	<b>Project Title</b>	<b>Name of Guide</b>
1.	Internship at Hutti Gold Mine, Karnataka	Prof. J V Modi
2.	Internship at Mata na Madh, GMDC, Bhuj	Prof. J V Modi
3.	Internship at Sial Ghogri Underground coal mine, MP	Prof. Suraj Kumar
4.	Internship at Mochia mine, Hindustan Zinc Limited, Rajasthan	Prof. Suraj Kumar
5.	Internship at Navdurga Quarry works	Prof. J V Modi



## F. New initiatives taken to make teaching-learning process more interactive

### CIVIL ENGINEERING DEPARTMENT

Sr. No.	Description of Arranged Visit	Date	Site, Location	Number of students participated
1	LARSEN& TOUBRO (L&T) SOIL TESTING LABORATORY, NATIONAL HIGH SPEED RAIL CORPORATION LIMITED. (NHSRCL), ANAND	2/04/2022	SOIL TESTING LABORATORY, LARSEN& TOUBRO (L&T) ANAND	98

### ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Teaching-Learning Tool Used	Name of Course and Semester	Teaching-Learning Tool Used	Details	
1	MS Teams	BE-2 <sup>nd</sup> sem, ADE-3 <sup>rd</sup> sem, ECA-3 <sup>rd</sup> sem, DM-4 <sup>th</sup> sem, PE-4 <sup>th</sup> sem EMAT-6 <sup>th</sup> sem	Microsoft White Board	Online Lecture and Laboratory on MS Team	Prof. BRP
2	MS Teams	PS-I-4 <sup>th</sup> sem, PS-II-5 <sup>th</sup> sem WSE-6 <sup>th</sup> sem SGP-7 <sup>th</sup> sem EHV-7 <sup>th</sup> sem	Graphics Tablet	The virtual theory and practical classes, Counselling/mentoring classes, and remedial classes have been effectively conducted through MS Teams.	Prof. AMP
3	MS Teams	BEE-1 <sup>st</sup> sem BEE-2 <sup>nd</sup> sem ADE-3 <sup>rd</sup> sem IC-3 <sup>rd</sup> sem EM-4 <sup>th</sup> sem PET-5 <sup>th</sup> sem	Graphics Tablet	The virtual theory and practical classes, Counselling/mentoring classes, and remedial classes have been effectively conducted	Prof. HNC

Sr. No.	Teaching-Learning Tool Used	Name of Course and Semester	Teaching-Learning Tool Used	Details	
				through MS Teams.	
4	Active Learning Assignments	MM-6 <sup>th</sup> Sem	Hardware projects	Projects are given to group of students for interfacing 8051 microcontroller with hardware circuits for specific application	Prof. HVH
5	MS Teams	EM-II- 5 <sup>th</sup> sem ACMD-7 <sup>th</sup> sem AED-7 <sup>th</sup> sem EM I-4 <sup>th</sup> sem EMMI-6 <sup>th</sup> sem IPS- 6 <sup>th</sup> sem	Microsoft White Board	Online Lecture and Laboratory on MS Team	Prof. KGP
6	Active Learning Assignments	IES-7 <sup>th</sup> Sem	Market Survey	An individual task was given to the students for rewiring his/her own house and ask to prepare materials list with latest price by doing market survey in near by area of his/her residential area	Prof. MGP
7	Active Learning Assignments	BE-2 <sup>nd</sup> sem	Project	Project are given to the students in a group	Prof. MGP
8	Active Learning Assignments	PP-4 <sup>th</sup> sem	Online Python Simulator	Python Simulator is used to test and debug the code online simultaneously student can work on the code	Prof. MKP
9	Active Learning Assignments	IA-7 <sup>th</sup> sem	PLC Simulator	Simense PLC Simulator and factory IO	Prof. MKP
10	MS Teams	SGP-7 <sup>th</sup> sem PS-II-6 <sup>th</sup> sem DM-4 <sup>th</sup> sem, PS-1-4 <sup>th</sup> sem EMMI-6 <sup>th</sup> sem HVDC- 6 <sup>th</sup> sem	Microsoft White Board	Online Lecture and Laboratory on MS Team	Prof. JHP

**MECHANICAL ENGINEERING DEPARTMENT**

Sr. No.	Methodology	Related Course	Class	Name of Staff
1	Case study base teaching in subject advance manufacturing process	advance manufacturing process	Third year	Prof. A R Chaudhari
2	Content interaction through NPTEL resources and learning materials (Topic wise link shared with students)	REE, AT, CAD	Third year	Prof. ABP, SKD, NAP
3	Industrial visit for third year students at iACE, Gandhinagar to create awareness in resent trends in automobile industry and at IGTR with Wintech India Pvt Ltd, Ahmedabad.	All current subjects	Third year	Prof. VDP, ADP, SKD, ARC
4	Online Quiz based assignments and improvement quiz in renewable energy engineering.	All current subjects	All Sem	All Staffs
5	Using ICT tool during teaching learning process.	All current subjects	All Sem	All Staffs

**MINING ENGINEERING DEPARTMENT**

1. Video lectures of advancement in mining engineering and preparation of charts and models for better understanding and improvement in practical knowledge.

Name of Faculty	Semester	Subject	Using PPT? Yes/No	Using Videos? Yes/No	Using Animations? Yes/No	Any Other Methodology
J. V. Modi	IV	RM	Yes	Yes	No	No
Suraj Kumar	IV	MM-I	Yes	Yes	No	No
Suraj Kumar	V	MM-II	Yes	Yes	No	No
Suraj Kumar	V	UCM	Yes	Yes	No	No
J. V. Modi	V	MS - II	Yes	Yes	No	No
Suraj Kumar	VI	MV	Yes	Yes	No	No
J. V. Modi	VI	UMM	Yes	Yes	No	No
J. V. Modi	VII	DST	Yes	Yes	No	No
Suraj Kumar	VII	RF	Yes	Yes	Yes	No

## G. Innovative Assessment Methodologies

### CIVIL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related subject	Class	Name of staff
1	Online Classes conducted online through MS Team	All current subjects	All Sem	All Staffs
2	Online Exams conducted through MS Team	All current subjects	All Sem	All Staffs

### ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related course	Class	Name of staff
1	Rubrics based Progressive Assessment	BE, ECA, ADE, DM, PE, EMAT	2 <sup>nd</sup> , 3 <sup>rd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> and 6 <sup>th</sup> Semester	Prof. B.R. Patel
2	Rubrics based Progressive Assessment	PS-I, PS-II, WSE, SGP, and EHV	4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 7 <sup>th</sup> Semester	Dr. A. M. Patel
3	Progressive Assessment	BEE, ADE, IC, EM, PET	1 <sup>st</sup> , 3 <sup>rd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> Semester	Prof. H N Chaudhari
4	Rubrics based Progressive Assessment	CST, S&S, AED, MM, PE	3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> and 7 <sup>th</sup> Sem	Prof. H. V. Hirvaniya
5	Rubrics based Progressive Assessment	EM I, EM II, EMMI, IPS, ACMD	4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , 7 <sup>th</sup> and 7 <sup>th</sup> Semester	Prof. K. G. Prajapati
6	Rubrics based Progressive Assessment	BEE, BE, EM 1, EM-II and IES	1 <sup>st</sup> , 2 <sup>nd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> and 7 <sup>th</sup> Sem	Prof. M. G. Prajapati
7	Rubrics based Progressive Assessment	MM, PPS, PP, HVE, IA, HVDC	1 <sup>st</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> and 7 <sup>th</sup>	Prof. M.K. Patel
8	Rubrics based Progressive Assessment	SGP, PS-II, DM, PS-1, EMMI, HVDC	4 <sup>th</sup> , 6 <sup>th</sup> and 7 <sup>th</sup> Sem	Prof. J. H Patel

**MECHANICAL ENGINEERING DEPARTMENT**

Sr. No.	Methodology	Related Course	Class	Name Of Staff
1	Online Teaching through Team Microsoft/Progressive Assessment	All course	All Semester	All faculty

**MINING ENGINEERING DEPARTMENT**

Sr. No.	Methodology	Related subject	Class	Name of staff
1	Presentation method by Students and Quiz	Geology-I & II	Semester 3 & 4	Prof. H.B Patel
2	Students were asked to make presentation on the given topic, Discussion, Question answering and MCQ Quiz	Mining Machinery – I & II	4th & 5th Semester	Suraj Kumar
3	Presentation method by Students, Question answering method, Discussion Method	Underground Metal Mining	6th Semester	J. V. Modi
4	Students were asked to make presentation on the given topic and to deliver in the class itself to improve their self-learning ability and MCQ Quiz	Rock Fragmentation	7th Semester	Suraj Kumar

## H. Students Interaction with Outside World

### Participation in State Level Project Competition: National Seminar: Conference

#### MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated									
1	One day Workshop on " Thermal Engineering"	24/06/2022	PDPU Gandhinagar	Sanura Ravi									
2	<table border="1"> <tr><td>1.Real Steel,</td></tr> <tr><td>2.Tug Of Bots,</td></tr> <tr><td>3.Real Steel,</td></tr> <tr><td>4.Mecha-Hunt,</td></tr> <tr><td>5.Bridge The Gap,</td></tr> <tr><td>6.Maze Runner,</td></tr> <tr><td>7.Robo Soccer,</td></tr> <tr><td>8.Robotics Cad,</td></tr> <tr><td>9.Labyrinth</td></tr> </table>	1.Real Steel,	2.Tug Of Bots,	3.Real Steel,	4.Mecha-Hunt,	5.Bridge The Gap,	6.Maze Runner,	7.Robo Soccer,	8.Robotics Cad,	9.Labyrinth	28/04/2022, 29/04/2022, 30/04/2022	L.D COLLEGE OF ENGINEERING, AHMEDABAD	Chauhan Smit Kaushiksingh
1.Real Steel,													
2.Tug Of Bots,													
3.Real Steel,													
4.Mecha-Hunt,													
5.Bridge The Gap,													
6.Maze Runner,													
7.Robo Soccer,													
8.Robotics Cad,													
9.Labyrinth													
3	NIC NSS Camp	27/06/22 to 03/07/2022	NIC NSS Camp, Ahmedabad	Prajapati Bharat									

## I. Result Analysis

### CIVIL ENGINEERING DEPARTMENT

#### i. Overall result (Sem wise)

2021-22		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	67	14	20.90
	II Sem	67	15	24.59
SY	III Sem	77	53	68.83
	IV Sem	77	51	66.23
TY	V Sem	79	47	59.49
	VI Sem	78	67	85.90
LY	VII Sem	62	53	85.48
	VIII Sem	61	60	98.36

#### ii. Course wise (with name of faculty tutor)—Deptt. Wise

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Internship/Project	61	60	98.36%	All Faculty
Summer Internship	62	57	91.94%	All Faculty
Irrigation Engineering [IE]	44	42	95.45%	Prof. S. G. Chauhan & Prof. V. H. Khokhani
Construction Engineering and Management [CEM]	62	62	100.00%	Prof. S. G. Chauhan & Prof. V. H. Khokhani

Engineering Economics, Estimation and Costing [EEEC]	62	58	93.55%	Dr. G. M. Savaliya & Prof. S. G. Chauhan
Design of Steel Structures [DSS]	18	16	88.89%	Dr. V. R. Sharma & Prof. Y. J. Chauhan
Design of hydraulic structures [DHS]	62	57	91.94%	Prof. V. H. Khokhani & Prof. S. G. Chauhan
Port and Harbour Engineering [PHE]	44	42	95.45%	Prof. H. U. Patel & Prof. V. H. Khokhani
Design of Industrial Structures [DIS]	18	16	88.89%	Prof. Y. J. Chauhan & Dr. V. R. Sharma &
Infrastructure for smart Cities [ISC]	62	60	96.77%	Prof. V. H. Khokhani & Prof. S. G. Chauhan
Design Engineering II B [DE-II[B]	78	78	100%	Prof. N. R. Kotiya & Prof H.U. Patel
Integrated Personality Development Course [IPDC]	58	58	100%	Dr. C. G. Prajapati
Water Resources Engineering and Hydrology [WREH]	78	69	88.46%	Prof. V. H. Khokhani
Environmental Engineering [ENV]	78	73	93.59%	Prof. S. G. Chauhan
Urban Transportation Planning [UTP] [DElect-II]	46	45	97.83%	Prof. S. G. Chauhan
Design of Reinforced Concrete structures [DRCS] [DElect-II]	14	14	100%	Prof. Y. J. Chauhan
Rock Mechanics and Tunneling [RMT] [DElect-II]	18	18	100%	Prof. N. R. Kotiya
Traffic Engineering and Management [TEM] [Delect-III]	46	44	95.65%	Prof. H. U. Patel



Foundation Engineering [FE-6SEM]	18	17	94.44%	Prof. N. R. Kotiya & Prof. P. C. Vasani
Earthquake Engineering [EQ]	14	13	92.86%	Prof. V. R. Sharma & Prof. Y. J. Chauhan
Soft Computer techniques [SC] [O.Elect]	78	76	97.44%	Prof. V. R. Sharma & Prof. Y. J. Chauhan
Design Engineering - II (A) [DE - II (A)]	79	76	96.20%	Prof. N. R. Kotiya & Prof. R. K. Rathod
Integrated Personality Development Course [IPDC]	59	59	100.00%	Dr. C. G. Prajapati
Concrete Technology [CT]	79	69	87.34%	Prof. M. N. Prajapati & Prof. N. R. Kotiya
Transportation Engineering [TRE]	79	54	68.35%	Prof. H. U. Patel
Design of Structures [DOS]	79	69	87.34%	Prof. P.C. Vasani & Prof. V. R. Sharma
Pavement Design & Highway construction [PD&H]	48	37	77.08%	Prof. H. U. Patel
Structural analysis-II [SA-II]	16	14	87.50%	Prof. Y. J. Chauhan
Soil Mechanics [SM]	15	14	93.33%	Prof. N. R. Kotiya
Remote Sensing and GIS [RS&G]	79	67	84.81%	Prof. V. H. Khokhani
Design Engineering 1 B [DE-I[B]	77	75	97.40%	Prof. V. H. Khokhani and Prof. M. N. Prajapati
Surveying [SUR]	77	69	89.61%	Prof. V. H. Khokhani & Prof. R.K. Rathod
Structural Analysis-I [SA-I]	77	66	85.71%	Prof. P.C. Vasani & Prof. M.N. Prajapati

Civil Engineering - Societal & Global Impact [CSGI]	77	76	98.70%	Prof. M. N. Prajapati
Complex Variables and Partial Differential Equations [CVPDE]	77	57	74.03%	Prof. D. A. Patel & Prof. R. H. Chaudhary
Fluid Mechanics & Hydraulics [FMH]	77	67	87.01%	Dr. G. M. Savaliya
Effective Technical Communication [ETC]	77	69	89.61%	Prof. A. I. Roy & Mr. Digvijay Solanki [Visiting Faculty]
Indian Constitution [IC]	77	71	92.21%	Prof. R. K. Rathod
Design Engineering - I (A) [DE- I (A)]	77	64	83.12%	Prof. V. H. Khokhani & Prof. M. N. Prajapati
Geotechnical Engineering [GE]	77	68	88.31%	Prof. N. R. Kotiya
Building Construction and Technology [BCT]	77	66	85.71%	Dr. G. M. Savaliya & Prof. R. K. Rathod
Mechanics of Solids [MOS]	67	62	92.54%	Prof. P. C. Vasani & Prof. M. N. Prajapati
Building and Town Planning [BTP]	77	71	92.21%	Prof. S. G. Chauhan
English [ENG]	61	55	90.16%	Mr. Digviaya (VF)
Programming for Problem Solving [PPS]	61	38	62.30%	Prof. V.H.Khokhani & Prof. R.K. Rathod
Basic Civil Engineering [BCE]	61	42	68.45%	Prof. H. U. Patel, Prof. R.K. Rathod
Basic Mechanical Engineering [BME]	61	39	63.93%	Prof. A.B. Patel
Workshop/ Manufacturing Practices [W/S]	61	54	88.52%	Prof. N.A.Patel & Prof. J.H.Patel

Mathematics –2 [MATHS-2]	61	24	39.34%	Prof. D. A. Patel & Prof. F.J.Narsingani
Basic Electrical Engineerring [BEE]	67	21	31.34%	Prof. H. N. Chaudhary
Environmental Science [ES]	67	49	73.13%	Prof. R. K. Rathod & Dr. G. M. Savaliya
Physics [PHY]	67	28	41.79%	Dr. K. M. Korot
Engineering Graphics and Design [EG&D]	67	23	34.33%	Prof. A. D. Patel & Prof. P. N. Boka
Mathematics - I [MATHS-I]	67	31	46.27%	Prof. D. A. Patel & Dr. F. J. Narsingani
Induction Programme [IND. PRGM]	67	67	100.00%	All Staff

**ELECTRICAL ENGINEERING DEPARTMENT**

## i. Overall result (Sem wise)

2021-22		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	24	7	29.17%
	II Sem	24	7	29.17%
SY	III Sem	29	4	13.79%
	IV Sem	29	8	27.59%
TY	V Sem	53	16	30.19%
	VI Sem	49	22	44.90%
LY	VII Sem	61	31	50.82%
	VIII Sem	60	60	100%

## ii. Course wise (with name of faculty tutor)—Deptt. Wise

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Programming for Problem Solving	24	19	79.17%	Prof. Manish K. Patel Prof. Hitesh V. Hirvaniya
Basic Electrical Engineering	24	11	45.83%	Prof. Manish G. Prajapati
Environmental Sciences	24	17	70.83%	Prof. Ghanshyam M. Savaliya Prof. Rahul K. Rathod
Engineering Graphics & Design	24	12	50.00%	Prof. Pradeep N. Boka Prof. Ashwin D. Patel
Mathematics - 1	24	11	45.83%	Prof. Fenny J. Narsigani Prof. Rekha H. Chaudhary
Induction Program	24	24	100.00%	Prof. K. G. Prajapati
Effective Technical Communication	29	18	62.07%	Prof. Digvijay. N. Solanki
Indian Constitution	29	27	93.10%	Prof. Harsh N. Chaudhary
Design Engineering - I A	29	27	93.10%	Prof. Harsh N. Chaudhary
Control System Theory	29	16	55.17%	Prof. Hitesh V. Hirvaniya
Electrical Circuit Analysis	29	8	27.59%	Prof. Bhavesh R. Patel
Analog & Digital Electronics	29	4	13.79%	Prof. Harsh N. Chaudhary Prof. Bhavesh R. Patel
Applied Mathematics for Electrical Engineering	29	15	51.72%	Prof. Fenny. J. Narsingani
Design Engineering - II A	53	49	92.45%	Prof. Manish K. Patel
Integrated Personality Development Course	20	20	100.00%	Prof. Chetan G. Prajapati
Professional Ethics	53	36	67.92%	Prof. Manish G. Prajapati Prof. Harsh N. Chaudhary

Course	Number of Students		Pass %	Name of faculty
Electrical Machine- II	53	34	64.15%	Prof. Manish G. Prajapati Prof. Kirti G. Prajapati
Power System- II	53	26	49.06%	Prof. Alpesh M. Patel Prof. Jugnu H. Patel
Signals and Systems	53	23	43.40%	Prof. H. V. Hirvaniya
Disaster Management	35	29	82.86%	Prof. Bhavesh R. Patel Prof. Jugnu H. Patel
Python Programming	18	12	66.67%	Prof. Manish K. Patel
Internship	61	58	95.08%	All Faculty
Switchgear and Protection	61	51	83.61%	Prof. Alpesh M. Patel Prof. Jugnu H. Patel
AC Machine and Design	61	41	67.21%	Prof. Kirti G. Prajapati
High Voltage Engineering	28	11	39.29%	Prof. Manish K. Patel
Industrial Electrical System	61	50	81.97%	Prof. Manish G. Prajapati
Electrical and Hybrid Vehicle	61	61	100.00%	Prof. Alpesh M. Patel
Industrial Automation	61	56	91.80%	Prof. Manish K. Patel
Advanced Electrical Drive	33	29	87.88%	Prof. Hitesh V. Hirvaniya Prof. Kirti G. Prajapati
Internship	60	60	100%	All Faculty
Design Engineering II B	49	47	95.92%	Prof. Manish K. Patel
Integrated Personality Development Course	19	19	100.00%	Prof. Chetan G. Prajapati
Microprocessors and Microcontrollers	49	26	53.06%	Prof. Hitesh V. Hirvaniya Prof. Manish K. Patel
Electrical Measurement and Measuring Instruments	49	41	83.67%	Prof. Jugnu H. Patel Prof. Kirti G. Prajapati
Wind and Solar Energy	49	36	73.47%	Prof. Alpesh M. Patel
Inter Connected Power System	23	18	78.26%	Prof. Kirti G. Prajapati
HVDC Transmission Systems	26	16	61.54%	Prof. Jugnu H. Patel Prof. Manish K. Patel
Electrical Materials	49	45	91.84%	Prof. Manish G. Prajapati Prof. Bhavesh R. Patel
Design Engineering I B	29	27	93.10%	Prof. Harsh N. Chaudhary
Economics for Engineers	29	18	62.07%	Prof. Chetan G. Prajapati Prof. Jugnu H. Patel
Electromagnetic Fields	29	15	51.72%	Prof. Harsh N. Chaudhary
Electrical Machine- I	29	13	44.83%	Prof. Manish G. Prajapati Prof. Kirti G. Prajapati
Power System- I	29	16	55.17%	Prof. Alpesh M. Patel Prof. Jugnu H. Patel
Power Electronics	29	14	48.28%	Prof. Hitesh V. Hirvaniya Prof. Bhavesh R. Patel
Chemistry	16	12	75.00%	Prof. Chetan G. Prajapati
English	24	22	91.67%	Prof. Digvijay N. Solanki
Basic Mechanical	24	18	75.00%	Prof. Pradeep N. Boka

Course	Number of Students		Pass %	Name of faculty
Engineering				
Workshop/ Manufacturing Practices	24	24	100.00%	Prof. Manish K. Patel
Mathematics - 2	24	10	41.67%	Prof. Fenny J. Narsigani Prof. Deepak A. Patel
Basic Electronics	24	16	66.67%	Prof. Bhavesh R. Patel Prof. Manish G. Prajapati
Physics	8	5	62.50%	Prof. Kirti M. Korot

**MECHANICAL ENGINEERING DEPARTMENT**

## i. Overall result (Sem wise)

2021-22		Nos. of students appeared	Nos. of students passed	Pass %
F.Y.	I Sem	19	2	10.53%
	II Sem	16	6	37.5%
S.Y.	III Sem	77	25	32.47%
	IV Sem	72	37	51.39%
T.Y.	V Sem	68	22	32.35%
	VI Sem	66	30	45.45%
L.Y.	VII Sem	50	32	64.00%
	VIII Sem	50	50	100%

## ii. Course wise (with name of faculty tutor)—Deptt. Wise

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
3110004 Basic Civil Engineering	19	5	26.32%	Prof. H U Patel, Prof. R K Rathod
3110007 Environmental Sciences	19	12	63.16%	Prof. G M Savaliya, Prof. R K Rathod
3110011 Physics	19	9	47.37%	Prof. K M Korot
3110013 Engineering Graphics & Design	19	6	31.58%	Prof. A D Patel, Prof. P N Boka
3110014 Mathematics - 1	19	9	47.37%	Prof. R H Chaudhary, Prof. F J Narsingani
3110017 Induction Program	19	19	100.00%	Prof. A D Patel
3130004 Effective Technical Communication	77	59	76.62%	Prof. A I Roy
3130005 Complex Variables and Partial Differential Equations	77	38	49.35%	Prof. D A Patel, Prof. R H Chaudhari
3130007 Indian Constitution	77	76	98.70%	Prof. V K Patel

Course	Number of Students		Pass %	Name of faculty
3130008 Design Engineering - I A	77	69	89.61%	Prof. P N Boka
3131904 Material Science and Metallurgy	77	44	57.14%	Prof. A K Patel
3131905 Engineering Thermodynamics	77	33	42.86%	Prof. S K Dabhi, Prof. N T Raval
3131906 Kinematics and Theory of Machines	77	45	58.44%	Prof. A R Chaudhari, Prof. P N Boka
3150001 Design Engineering - II A	68	65	95.59%	Prof. A R Chaudhri
3150005 Integrated Personality Development Course	68	40	100.00%	Prof. Dr. K B Judal
3151909 Heat Transfer	68	44	64.71%	Prof. V D Patel, Prof A B Patel
3151910 Operation Research	68	45	66.18%	Prof. Dr. J A Vadher, Prof. N T Raval
3151911 Dynamics of Machinery	68	37	54.41%	Prof. P N Boka, Prof. A R Chaudhri
3151912 Manufacturing Technology	68	53	77.94%	Prof. A K Patel
3151913 Oil Hydraulics And Pneumatics	68	44	64.71%	Prof. Dr. N A Patel, Prof. V K Patel
3170001 Summer Internship	50	49	98.00%	--
3171910 Power plant Engineering	50	35	70.00%	Prof. A B Patel
3171917 Design of Machine elements	50	35	70.00%	Prof. V K Patel
3171930 Industrial Internet of Things	50	47	94.00%	Prof Dr. J A Vadher, Prof. N T Raval
3171506 Project Management	25	24	96.00%	Prof Dr. J A Vadher, Prof. Dr. N A Patel
3171927 Turbo Machines	25	25	100.00%	Prof. A B Patel
3171918 RAC	25	25	100.00%	Prof. V D Patel
3171922 Automation in Manufacturing	25	24	96.00%	Prof Dr. J A Vadher, Prof. Dr. N A Patel
3171923 Internal combustion engine	26	23	88.46%	Prof. S K Dabhi
3171925 Advanced Machine Design	24	15	62.50%	Prof. A D Patel
3181901 Internship/Project	50	50	100%	All Faculties
3110002 English	16	15	93.75%	Visiting Faculty
3110003 Programming for Problem Solving	16	15	93.75%	Prof A R Chaudhary
3110005 Basic Electrical Engineering	16	13	81.25%	Prof H N Chaudhary
3110006 Basic Mechanical Engineering	16	12	75.00%	Prof. V D Patel
3110012 Workshop/ Manufacturing	16	16	100.00%	Prof S K Dabhi



Course	Number of Students		Pass %	Name of faculty
Practices				
3110015 Mathematics - 2	16	7	43.75%	Prof R H Chaudhary
3140005 Design Engineering 1 B	72	70	97.22%	Prof. A B Patel
3141901 Mechanical Measurement and Metrology	72	58	80.56%	Prof. V K Patel, Prof. A K Patel
3141906 Fluid Mechanics and Hydraulics Machines	72	50	69.44%	Prof. V D Patel,
3141907 Fundamentals of Machine Design	72	46	63.89%	Prof. P N Boka, Prof. A D Patel
3141908 Manufacturing Processes	72	54	75.00%	Prof. A K Patel
3141909 Organisational Behaviour	72	52	72.22%	Prof. Dr. J A Vadher and Prof. S K Dabhi
3160001 Design Engineering II B	66	66	100.00%	Prof. A B Patel
3160003 Integrated Personality Development Course	40	40	100.00%	Dr. K B Judal
3161903 Computer Aided Design	16	10	62.50%	Prof. N A Patel
3161907 Basics of Industrial Engineering	50	38	76.00%	Dr. J A VADHER/ Prof. N T Raval
3161910 Applied Thermodynamics	66	34	51.52%	Prof. S K Dabhi
3161914 Renewable Energy Engineering	51	47	92.16%	Prof. A B Patel
3161917 Computer Aided Manufacturing	15	13	86.67%	Prof. N A PATEL/ Dr. J A VADHER
3161920 Automobile Engineering	33	29	87.88%	Prof. A D Patel
3161922 Advanced Manufacturing Processes	33	31	93.94%	Prof. A R Chaudhri/ Prof. N T Raval
3161926 Industry 4.0	66	51	77.27%	Dr. J A VADHER

**MINING ENGINEERING DEPARTMENT**

## i. Overall result (Sem wise)

2021-22		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	Nil		
	II Sem	Nil		
SY	III Sem	05	02	40
	IV Sem	05	03	60
TY	V Sem	11	09	81.82
	VI Sem	11	11	100
LY	VII Sem	18	08	44.44
	VIII Sem	19	19	100

## ii. Course wise (with name of faculty tutor)

COURSE	NUMBER OF STUDENTS		PASS %	NAME OF FACULTY
	Appeared	Passed		
Programming for Problem Solving	Nil			
Basic Electrical Engineering	Nil			
Environmental Sciences	Nil			
Engineering Graphics & Design	Nil			
Mathematics – I	Nil			
Chemistry	Nil			
English	Nil			
Basic Civil Engineering	Nil			
Basic Mechanical Engineering	Nil			
Workshop/ Manufacturing Practices	Nil			
Mathematics –2	Nil			
Effective Technical Communication	05	03	60	A I Roy/ Digvijay Solanki
Complex Variables and Partial Differential Equations	05	02	40	R. H. Chaudhary/ D A Patel
Indian Constitution	05	05	100	DR. C G PRAJAPATI/ H.N.CHAUDHARY
Design Engineering - I A	05	05	100	H.B.PATEL

Mechanics of Solids	05	02	40	P C Vasani
Introduction to Mining	05	02	40	J.V.MODI
Geology	05	02	40	H.B.PATEL
Design Engineering 1 B	05	05	05	H.B.PATEL
Mining Machinery - I	05	05	04	SURAJ KUMAR
Mine Surveying - I	05	05	02	FACULTY NOT ALLOTTED
Mine Management and General Safety	05	05	05	Sachin Khatri
Mining Geology	05	05	05	H.B.PATEL
Rock Mechanics	05	05	04	J.V.MODI
Design Engineering - II A	11	11	100	J.V.MODI
Mine Legislation	11	10	90.91	Prakash Darji/Sachin Khatri
Mining Machinery - II	11	10	90.91	SURAJ KUMAR
Mine Surveying - II	11	09	81.82	J.V.MODI
Underground coal Mining	11	11	100	SURAJ KUMAR
Human resource Management	11	10	90.91	H.B.PATEL
Integrated Personality Development Course	08	08	100	DR. C G PRAJAPATI
Design Engineering - II B	11	11	11	J.V.MODI
Integrated Personality Development Course	11	11	11	DR. C G PRAJAPATI
Underground Metal Mining	11	11	11	J.V.MODI
Mine Hazards	11	11	11	SACHIN KHATRI
Drilling Blasting Technology	11	11	11	SACHIN KHATRI
Environment Management	11	11	11	H B PATEL
Mine Ventilation	11	11	11	SURAJ KUMAR
Mine Planning	18	16	88.89	PRAKASH DARJI
Advance Mining Method	18	9	50	SACHIN KHATRI/
Rock Fragmentation	18	15	83.33	SURAJ KUMAR
Dimensional Stone Technology	18	16	88.89	SURAJ KUMAR
Rock Excavation Technology	18	16	88.89	J.V.MODI
Safety Engineering	18	8	44.44	PRAKASH DARJI
Internship/Major Project	19	19	100	J.V.MODI, SURAJ KUMAR

## J. Student Feedback/ Analysis

The research on formative assessment and feedback is reinterpreted to show how these processes can help students take control of their own learning, i.e. become self-regulated learners. This reformulation is used to identify seven principles of good feedback practice that support self-regulation. A key argument is that students are already assessing their own work and generating their own feedback, and that higher education should build on this ability. The research underpinning each feedback principle is presented, and some examples of easy-to-implement feedback strategies are briefly described. This shift in focus, whereby students are seen as having a proactive rather than a reactive role in generating and using feedback, has profound implications for the way in which teachers organise assessments and support learning.

Student's feedbacks are taken at the end of every semester from the students of each class regularly. Parameters on which student's feedback has been taken are as follows:

Sr.No.	Criteria	Grade (out of 5)
1	Has the Teacher covered entire syllabus as prescribed by University	1/2/3/4/5
2	Has the Teacher covered relevant topics beyond syllabus	1/2/3/4/5
3	Effectiveness of Teacher in terms of: a. Technical Content/Course Content b. Communication skills c. Use of teaching aids	1/2/3/4/5
4	Pace on which content were covered	1/2/3/4/5
5	Motivation & inspiration for students to learn	1/2/3/4/5
6	Support for the development of students skill a. Practical demonstration b. Hands-on training	1/2/3/4/5
7	Clarity of expectation of students	1/2/3/4/5
8	Feedback provided on students progress	1/2/3/4/5
9	Willingness to offer help and advice to students	1/2/3/4/5

- ❖ Detailed scoring has been circulated to all the faculty members. It has been emphasized to draw their attention to look into their individual criteria wise score and to take further measures for effective improvement.

**CIVIL ENGINEERING DEPARTMENT**

<b>A.Y. 2021-22[ODD Term] Phase-1</b>						
<b>Sr. No.</b>	<b>Sem.</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Faculty</b>	<b>Average Rating out of 5</b>	<b>% Rating</b>
1	VII	Engineering Economics, Estimation and Costing	3170615	PROF. G. M. SAVALIYA	4.22	84.39
2	VII	Construction Engineering and Management	3170614	PROF. S. G. CHAUHAN	4.21	84.17
3	VII	Infrastructure for smart Cities	3170628	PROF. S. G. CHAUHAN	4.25	85.00
4	VII	Infrastructure for smart Cities	3170628	PROF. V. H. KHOKHANI	4.17	83.39
5	VII	Design of Steel Structures	3170618	DR. Vijay R. SHARMA	4.40	88.00
6	VII	Irrigation Engineering	3170609	PROF. S. G. CHAUHAN	4.47	89.39
7	VII	Design of hydraulic structures	3170621	PROF. V. H. KHOKHANI	4.18	83.56
8	VII	Design of Industrial Structures	3170626	PROF. Y. J. CHAUHAN	4.29	85.83
9	VII	Port and Harbour Engineering	3170623	PROF. H. U. PATEL	4.66	93.26
10	V	Integrated Personality Development Course	3150005	PROF C.G.PRAJAPATI	4.4	88.80
11	V	Concrete Technology	3150610	PROF. N.R.KOTIYA	4.4	88.30
12	V	Concrete Technology	3150611	PROF M.N.PRAJAPATI	4.3	86.70
13	V	Transportation Engineering	3150611	PROF H.U.PATEL	4.5	90.00
14	V	Design of Structure	3150612	PROF. V.R.SHARMA	4.5	89.60

15	V	Design of Structure	3150613	PROF.P.C.VASANI	4.5	89.60
16	V	Remote Sensing And GIS	3150617	PROF. V.H.KHOKHANI	4.5	89.10
17	V	Pavement Design and Highway Construction	3150613	PROF. H.U.PATEL	4.6	92.30
18	V	Design Engineering - II B	3150614	PROF Y.J.CHAUHAN	4.4	88.70
19	V	Design Engineering - II B	3150615	PROF. N.R.KOTIYA	4.5	90.50
20	III	Mechanics of Solids	3130608	Prof. P. C. VASANI	4.1	82.90
21	III	Building Construction Technology	3130607	Prof. G. M. SAVALIYA	4.5	90.40
22	III	Design Engineering 1 A	3130008	Prof. V. H. KHOKHANI	4.2	84.10
23	III	Building and Town Planning	3130609	Prof. S. G. CHAUHAN	4.1	82.40
24	III	Geotechnical Engineering	3130606	Prof. N. R. KOTIYA	4.4	88.20
25	III	Indian Constitution	3130007	Prof. R. K. RATHOD	4.5	89.00
26	III	Building Construction Technology	3130607	Prof. R. K. RATHOD	4.5	90.20
27	III	Mechanics of Solids	3130608	Prof. M. N. PRAJAPATI	4.4	87.70
28	III	Geotechnical Engineering	3130606	Prof. M. N. PRAJAPATI	4.3	85.40
29	III	Design Engineering 1 A	3130008	PROF M. N. PRAJAPATI	4.4	87.70
30	III	Effective Technical Communication	3130004	DIGVIJAY SOLANKI (VF)	3.9	77.30
31	I	Engineering Graphics & Design	3110013	PROF. A. D. PATEL	4.43	88.56
32	I	Engineering Graphics & Design	3110013	PROF. P. N. BOKA	4.11	82.11

33	I	Physics	3110011	DR. PROF. K. M. KOROT	4.64	92.89
34	I	Environmental Science	3110007	PROF. R. K. RATHOD	4.39	87.78
35	I	Environmental Science	3110007	DR. PROF. G. M. SAVALIYA	4.27	85.39
36	I	Basic Electrical Engineering	3110005	PROF. H. N. CHAUDHARY	4.11	82.11
37	I	Mathematics - I	3110014	PROF. D. A. PATEL	4.16	83.11
38	I	Mathematics - I	3110014	DR. PROF. F. J. NARSINGANI	4.43	88.61

**A.Y. 2021-22[ODD Term] Phase-2**

Sr. No.	Sem	Subject Name	Subject Code	Faculty	Average Rating out of 5	% Rating
1	VII	Engineering Economics, Estimation and Costing	3170615	PROF. G. M. SAVALIYA	4.46	89.17
2	VII	Engineering Economics, Estimation and Costing	3170615	PROF. S. G. CHAUHAN	4.35	86.94
3	VII	Construction Engineering and Management	3170614	PROF. S. G. CHAUHAN	4.38	87.56
4	VII	Construction Engineering and Management	3170614	PROF. V. H. KHOKHANI	4.38	87.56
5	VII	Infrastructure for smart Cities	3170628	PROF. S. G. CHAUHAN	4.39	87.83
6	VII	Infrastructure for smart Cities	3170628	PROF. V. H. KHOKHANI	4.40	88.00
7	VII	Design of Steel Structures	3170618	DR. V. R. SHARMA	4.61	92.12
8	VII	Irrigation Engineering	3170609	PROF. S. G. CHAUHAN	4.46	89.29
9	VII	Irrigation Engineering	3170609	PROF. V. H. KHOKHANI	4.38	87.62

10	VII	Design of hydraulic structures	3170621	PROF. V. H. KHOKHANI	4.40	88.00
11	VII	Design of hydraulic structures	3170621	PROF. S. G. CHAUHAN	4.35	87.00
12	VII	Design of Industrial Structures	3170626	PROF. Y. J. CHAUHAN	4.49	89.85
13	VII	Port and Harbour Engineering	3170623	PROF. H. U. PATEL	4.76	95.24
14	VII	Port and Harbour Engineering	3170623	PROF. V. H. KHOKHANI	4.39	87.86
15	V	Integrated Personality Development Course	3150005	PROF C.G.PRAJAPATI	4.1	81.70
16	V	Concrete Technology	3150610	PROF. N.R.KOTIYA	4.2	83.40
17	V	Concrete Technology	3150610	PROF M.N.PRAJAPATI	4.1	80.00
18	V	Transportation Engineering	3150611	PROF H.U.PATEL	4.4	88.70
19	V	Design of Structure	3150612	PROF. V.R.SHARMA	4.1	82.60
20	V	Design of Structure	3150612	PROF.P.C.VASANI	4	80.40
21	V	Remote Sensing And GIS	3150617	PROF. V.H.KHOKHANI	4.1	82.30
22	V	Pavement Design and Highway Construction	3150613	PROF. H.U.PATEL	4.1	92.30
23	V	Structural analysis-II	3150614	PROF Y.J.CHAUHAN	4.3	85.00
24	V	Soil Mechanics	3150615	PROF. N.R.KOTIYA	4.4	88.00
25	III	Mechanics of Solids	3130608	Prof. P. C. VASANI	4.1	82.60
26	III	Building Construction Technology	3130607	Prof. G. M. SAVALIYA	4.5	89.80
27	III	Design Engineering 1 A	3130008	Prof. V. H. KHOKHANI	4.1	82.20



28	III	Building and Town Planning	3130609	Prof. S. G. CHAUHAN	4.6	91.10
29	III	Geotechnical Engineering	3130606	Prof. N. R. KOTIYA	4.4	88.80
30	III	Indian Constitution	3130007	Prof. R. K. RATHOD	4.4	87.90
31	III	Building Construction Technology	3130607	Prof. R. K. RATHOD	4.4	87.10
32	III	Mechanics of Solids	3130608	Prof. M. N. PRAJAPATI	4.4	87.20
33	III	Geotechnical Engineering	3130606	Prof. M. N. PRAJAPATI	4.2	84.30
34	III	Design Engineering 1 A	3130008	PROF M. N. PRAJAPATI	4.4	88.20
35	III	Effective Technical Communication	3130004	DIGVIJAY SOLANKI (VF)	4.2	83.00
36	I	Engineering Graphics & Design	3110013	PROF. A. D. PATEL	4.08	81.50
37	I	Engineering Graphics & Design	3110013	PROF. P. N. BOKA	4.08	81.50
38	I	Physics	3110011	DR. PROF. K. M. KOROT	4.41	88.11
39	I	Environmental Science	3110007	PROF. R. K. RATHOD	4.31	86.17
40	I	Environmental Science	3110007	DR. PROF. G. M. SAVALIYA	4.37	87.33
41	I	Basic Electrical Engineering	3110005	PROF. H. N. CHAUDHARY	4.02	80.33
42	I	Mathematics - I	3110014	PROF. D. A. PATEL	4.05	80.94
43	I	Mathematics - I	3110014	DR. PROF. F. J. NARSINGANI	4.13	82.50

**A.Y. 2021-22[EVEN TERM] PHASE-1**

<b>Sr. No.</b>	<b>Sem</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Faculty</b>	<b>Average Rating out of 5</b>	<b>% Rating</b>
1	VI	Integrated Personality Development Course	3160003	PROF C.G.PRAJAPATI	4.6	91.00
2	VI	Water Resources Engineering and Hydrology	3160610	PROF V.H.KHOKHANI	4.7	94.70
3	VI	Water Resources Engineering and Hydrology	3160610	PROF. G.M.SAVALIYA	4.7	93.80
4	VI	Environmental Engineering	3160611	PROF. S.G. CHAUHAN	4.5	90.30
5	VI	Urban Transportation Planning	3160608	PROF S.G.CHAUHAN	4.5	89.90
6	VI	Urban Transportation Planning	3160608	PROF. H.U.PATEL	4.6	92.80
7	VI	Design of Reinforced Concrete structures	3160612	PROF. Y.J.CHAUHAN	4.6	92.20
8	VI	Traffic Engineering and Management	3160615	PROF. S.G. CHAUHAN	4.4	88.80
9	VI	Traffic Engineering and Management	3160615	PROF. H.U.PATEL	4.3	86.70
10	VI	Foundation Engineering	3160616	PROF. N.R.KOTIYA	4.4	88.10
11	VI	Foundation Engineering	3160616	PROF.P.C.VASANI	4.4	88.10
12	VI	Earthquake Engineering	3160621	PROF. V.R.SHARMA	4.3	85.60
13	VI	Earthquake Engineering	3160621	PROF. Y.J.CHAUHAN	4.8	95.80

14	VI	Soft Computing Techniques	3160619	PROF. Y.J.CHAUHAN	4.5	90.90
15	VI	Soft Computing Techniques	3160619	PROF. V.R.SHARMA	4.7	94.60
16	IV	Structural Analysis-1	3140603	PROF P. C. VASANI	4.5	90.30
17	IV	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.4	87.70
18	IV	Surveying	3140601	PROF V. H. KHOKHANI	4.3	86.80
19	IV	Design Engineering 1 B	3140005	PROF V. H. KHOKHANI	4.3	85.80
20	IV	Fluid Mechanics and Hydraulics	3140611	PROF S. G. CHAUHAN	4.6	92.60
21	IV	Surveying	3140601	PROF R. K. RATHOD	4.6	92.10
22	IV	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.7	94.30
23	IV	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.8	95.10
24	IV	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.7	94.70
25	IV	Complex Variables and Partial Differential Equation	3140610	PROF D. A. PATEL	4.6	91.30
26	IV	Complex Variables and Partial Differential Equation	3140610	PROF R. H. CHAUDHARY	4.6	92.30
27	II	English (3110002)	3110002	Mr. DIGVIJAY SOLANKI [VF]	4.16	83.22
28	II	Programming for Problem Solving (3110003)	3110003	PROF. V. H. KHOKHANI	4.47	89.39
29	II	Programming for Problem Solving (3110003)	3110003	PROF. R. K. RATHOD	4.59	91.83
30	II	Basic Civil Engineering	3110004	PROF. R. K. RATHOD	4.63	92.61

		(3110004)				
31	II	Basic Civil Engineering (3110004)	3110004	PROF. H. U. PATEL	4.54	90.83
32	II	Basic Mechanical Engineering (3110006)	3110006	PROF. A. B. PATEL	4.46	89.28
33	II	Mathematics - 2 (3110015)	3110015	DR. PROF. F. J. NARSINGANI	4.74	94.83
34	II	Mathematics - 2 (3110015)	3110015	PROF. D. A. PATEL	4.31	86.28
35	II	Workshop (Mechanical) (3110012)	3110012	PROF. A. D. PATEL	4.35	87.06
36	II	Workshop (Mechanical) (3110012)	3110012	PROF. N. A. PATEL	4.38	87.56
37	II	Workshop (Electrical) (3110012)	3110012	PROF. DR. A. M. PATEL	4.33	86.61
38	II	Workshop (Electrical) (3110012)	3110012	PROF. J. H. PATEL	4.27	85.44
39	II	Workshop (Electrical) (3110012)	3110012	PROF. M. G. PRAJAPATI	4.32	86.44

A.Y. 2021-22[EVEN TERM] PHASE-2						
Sr. No.	Sem	Subject Name	Subject Code	Faculty	Average Rating out of 5	% Rating
1	VI	Integrated Personality Development Course	3160003	PROF C.G.PRAJAPATI	4.5	90.00
2	VI	Water Resources Engineering and Hydrology	3160610	PROF V.H.KHOKHANI	4.5	90.00
3	VI	Water Resources Engineering and Hydrology	3160610	PROF. G.M.SAVALIYA	4.5	90.10
4	VI	Environmental Engineering	3160611	PROF. S.G. CHAUHAN	4.5	90.00
5	VI	Urban Transportation Planning	3160608	PROF S.G.CHAUHAN	4.6	91.10
6	VI	Urban Transportation Planning	3160608	PROF. H.U.PATEL	4.5	90.80
7	VI	Design of Reinforced Concrete structures	3160612	PROF. Y.J.CHAUHAN	4.5	90.00
8	VI	Traffic Engineering and Management	3160615	PROF. S.G. CHAUHAN	4.5	90.60
9	VI	Traffic Engineering and Management	3160615	PROF. H.U.PATEL	4.5	90.00
10	VI	Foundation Engineering	3160616	PROF. N.R.KOTIYA	4.5	90.60
11	VI	Foundation Engineering	3160616	PROF.P.C.VASANI	4.5	90.60
12	VI	Earthquake Engineering	3160621	PROF. V.R.SHARMA	4.6	91.00
13	VI	Earthquake Engineering	3160621	PROF. Y.J.CHAUHAN	4.6	91.70

14	VI	Soft Computing Techniques	3160619	PROF. Y.J.CHAUHAN	4.5	90.20
15	VI	Soft Computing Techniques	3160619	PROF. V.R.SHARMA	4.6	91.70
16	IV	Structural Analysis-1	3140603	PROF P. C. VASANI	4.3	86.10
17	IV	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.5	89.80
18	IV	Surveying	3140601	PROF V. H. KHOKHANI	4.5	90.50
19	IV	Design Engineering 1 B	3140005	PROF V. H. KHOKHANI	4.4	88.00
20	IV	Fluid Mechanics and Hydraulics	3140611	PROF S. G. CHAUHAN	4.3	86.80
21	IV	Surveying	3140601	PROF R. K. RATHOD	4.5	89.70
22	IV	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.5	90.30
23	IV	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.5	90.80
24	IV	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.4	87.90
25	IV	Complex Variables and Partial Differential Equation	3140610	PROF D. A. PATEL	4.4	88.00
26	IV	Complex Variables and Partial Differential Equation	3140610	PROF R. H. CHAUDHARY	4.4	88.40
27	II	English	3110002	Mr. DIGVIJAY SOLANKI [VF]	4.33	4.44
28	II	Programming for Problem Solving	3110003	PROF. V. H. KHOKHANI	4.42	4.49

29	II	Programming for Problem Solving	3110003	PROF. R. K. RATHOD	4.67	4.80
30	II	Basic Civil Engineering	3110004	PROF. R. K. RATHOD	4.58	4.79
31	II	Basic Civil Engineering	3110004	PROF. H. U. PATEL	4.58	4.64
32	II	Basic Mechanical Engineering	3110006	PROF. A. B. PATEL	4.75	4.71
33	II	Mathematics - 2	3110015	DR. PROF. F. J. NARSINGANI	5.00	4.90
34	II	Mathematics - 2	3110015	PROF. D. A. PATEL	4.42	4.48
35	II	Workshop (Mechanical)	3110012	PROF. A. D. PATEL	4.17	4.59
36	II	Workshop (Mechanical)	3110012	PROF. N. A. PATEL	4.08	4.53
37	II	Workshop (Electrical)	3110012	PROF. DR. A. M. PATEL	4.17	4.48
38	II	Workshop (Electrical)	3110012	PROF. J. H. PATEL	4.08	4.59
39	II	Workshop (Electrical)	3110012	PROF. M. G. PRAJAPATI	4.58	4.43

**ELECTRICAL ENGINEERING DEPARTMENT**

Sr No	Name of Faculty	Course Name	Course Code	Points Achieved	Total Points	Percentage
1	Prof. H. V. Hirvaniya	Control System Theory	3130905	4.4	5	88.8
2	Prof. B. R. Patel	Electrical Circuit Analysis	3130906	4.5	5	89.7
3	Prof. B. R. Patel	Analog & Digital Electronics	3130907	4.5	5	90.8
4	Prof. H. N. Chaudhari	Analog & Digital Electronics	3130907	4.5	5	89.8
5	Prof. F. J. Narsingani	Applied Mathematics for Electrical Engineering	3130908	4.6	5	92.6
6	Prof. Agnel Roy	Effective Technical Communication	3130004	4.3	5	85.7
7	Prof. H. N. Chaudhari	Indian Constitution	3130007	4.6	5	91
8	Prof. H. N. Chaudhari	Design Engineerig-1A	3130008	4.5	5	89.5
9	Prof. Manish K. Patel	Design Engineering - II A	3150001	4.05	5	80.92
10	Prof. Chetan G. Prajapati	Integrated Personality Development Program	3150005	4.03	5	80.52
11	Prof. Manish G. Prajapati	Professional Ethics	3150709	4.08	5	81.61
12	Prof. Harsh N. Chaudhari	Professional Ethics	3150709	3.88	5	77.53
13	Prof. Manish G. Prajapati	Electrical Machine- II	3150910	4.09	5	81.90
14	Prof. Kirti G. Prajapati	Electrical Machine- II	3150910	3.94	5	78.85
15	Prof. Jugnu H. Patel	Power System- II	3150911	4.47	5	89.31
16	Prof. Alpesh M. Patel	Power System- II	3150911	4.04	5	80.75
17	Prof. Hitesh V. Hirvaniya	Signals and Systems	3150912	4.03	5	80.63
18	Prof. Jugnu H. Patel	Disaster Management (DE)	3150913	4.41	5	88.25
19	Prof. Bhavesh R. Patel	Disaster Management (DE)	3150913	4.14	5	82.75
20	Prof. Manish K. Patel	Python Programming (DE)	3151108	4.51	5	90.19
21	Prof. J. H. Patel	Switchgear and Protection	3170908	4.1	5	82.4
22	Prof. A. M. Patel	Switchgear and Protection	3170908	4.2	5	83.0
23	Prof. K. G. Prajapati	AC Machine Design	3170909	4.1	5	81.0
24	Prof. M. G. Prajapati	Industrial Electrical Systems	3170920	4.0	5	79.5
25	Prof. A. M. Patel	Electrical and Hybrid Vehicle	3170923	4.1	5	81.7
26	Prof. M. K. Patel	Industrial Automation	3170925	4.1	5	81.9
27	Prof. H. V. Hirvaniya	Advanced Electric Drives	3170916	4.0	5	80.6
28	Prof. K. G. Prajapati	Advanced Electric Drives	3170916	4.0	5	79.8
29	Prof. M. K. Patel	High Voltage Engineering	3170917	4.2	5	83.9
30	Prof. J. H. Patel	Economics for Engineers	3140911	4.7	5	94.70
31	Prof. C. G. Prajapati	Economics for Engineers	3140911	4.4	5	88.50



Sr No	Name of Faculty	Course Name	Course Code	Points Achieved	Total Points	Percentage
32	Prof. H. N. Chaudhari	Electromagnetic Fields	3140912	4.6	5	91.30
33	Prof. K. G. Prajapati	Electrical Machine-I	3140913	4.5	5	90.80
34	Prof. M. G. Prajapati	Electrical Machine-I	3140913	4.5	5	89.80
35	Prof. A. M. Patel	Power Systems-I	3140914	4.8	5	95.80
36	Prof. J. H. Patel	Power Systems-I	3140914	4.7	5	94.80
37	Prof. B. R. Patel	Power Electronics	3140915	4.3	5	86.40
38	Prof. H. V. Hirvaniya	Power Electronics	3140915	4.6	5	92.90
39	Prof. H. N. Chaudhari	Design Engineering-1B	3140005	4.5	5	90.80
40	Prof. Manish K. Patel	Design Engineering - II B	3160001	4.00	5	80.00
41	Prof. Chetan G. Prajapati	Integrated Personality Development Course	3160003	4.09	5	81.85
42	Prof. Manish K. Patel	Microprocessors and Microcontrollers	3160914	4.06	5	81.11
43	Prof. Hitesh V. Hirvaniya	Microprocessors and Microcontrollers	3160914	4.03	5	80.65
44	Prof. Jugnu H. Patel	Electrical Measurement and Measuring Instruments	3160915	4.43	5	88.52
45	Prof. Kirti G. Prajapati	Electrical Measurement and Measuring Instruments	3160915	3.93	5	78.61
46	Prof. Alpesh M. Patel	Wind and Solar Energy	3160917	4.23	5	84.63
47	Prof. Bhavesh R. Patel	Electrical Materials	3160923	3.90	5	77.96
48	Prof. Manish G. Prajapati	Electrical Materials	3160923	3.95	5	79.07
49	Prof. Jugnu H. Patel	HVDC Transmission Systems	3160921	4.6	5	78.0
50	Prof. Manish K. Patel	HVDC Transmission Systems	3160921	4.20	5	79.07
51	Prof. Kirti G. Prajapati	Inter Connected Power System	3160920	4.0	5	78.0
52	Prof. G. M. Savaliya	Environmental Science	3110007	3.5	5	70.9
53	Prof. R. K. Rathod	Environmental Science	3110007	3.6	5	71.3
54	Prof. M. G. Prajapati	Basic Electrical Engineering	3110005	3.7	5	74.4
55	Prof. R. H. Chaudhari	Mathematics-I	3110014	2.8	5	56.9
56	Prof. F. J. Narsingani	Mathematics-I	3110014	3.6	5	71.8
57	Prof. H. V. Hirvaniya	Programming for Problem Solving	311003	4.0	5	79.5
58	Prof. M. K. Patel	Programming for Problem Solving	311003	3.7	5	74.3
59	Prof. P. N. Boka	Engineering Graphics & Design	3110013	3.6	5	71.1
60	Prof. A. D. Patel	Engineering Graphics & Design	3110013	3.8	5	75.8

<b>Sr No</b>	<b>Name of Faculty</b>	<b>Course Name</b>	<b>Course Code</b>	<b>Points Achieved</b>	<b>Total Points</b>	<b>Percentage</b>
61	Prof. S. K. Dabhi	Engineering Graphics & Design	3110013	3.4	5	68.2
62	Prof. N. T. Raval	Engineering Graphics & Design	3110013	3.4	5	68.5

**MECHANICAL ENGINEERING DEPARTMENT****A.Y. 2021-22[ODD Term] Phase-1**

<b>Sr. No.</b>	<b>Sem</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Faculty</b>	<b>Average Rating out of 5</b>	<b>% Rating</b>
1	VII	Advanced Machine Design	3171925	Prof.A.D.Patel	4.4	87.7
2	VII	Automation in Manufacturing	3171922	Dr.J.A.Vadher	4.1	82.5
3	VII			Prof.N.A.Patel	4.5	90.0
4	VII	Design of Machine Element	3171917	Prof.A.D.Patel	4.5	89.3
5	VII			Prof.V.K.Patel	3.5	70.3
6	VII	Industrial Internet of Things	3171930	Dr.J.A.Vadher	4.3	86.2
7	VII			Prof.N.T.Raval	3.7	74.8
8	VII	Internal Combustion Engine	3171923	Prof.S.K.Dabhi	4.1	81.1
9	VII	Power Plant Engineering	3171910	Prof.A.B.Patel	3.7	73.8
10	V	Design Engineering II-A	3150001	Prof. A. R. Chaudhari	3.6	71.9
11	V	Dynamics Of Machinery	3151911	Prof. A. R. Chaudhari	3.9	77.3
12	V	Dynamics Of Machinery	3151911	Prof. P. N. Boka	3.9	78.6
13	V	Heat Transfer	3151909	Prof. V. D. Patel	4.3	86.1
14	V	Integrated Personality Development Course	3150005	Dr. K. B. Judal	3.8	76.6

15	V	Manufacturing Technology	3151912	Prof. A. K. Patel	4.3	86.3
16	V	Oil Hydraulics And Pneumatics	3151913	Prof. N. A. Patel	3.9	77.7
17	V	Oil Hydraulics And Pneumatics	3151913	Prof. V. K. Patel	3.7	74.4
18	V	Operation Research	3151910	Dr. J. A. Vadher	3.7	73.3
19	V	Operation Research	3151910	Prof. N. T. Raval	3.7	73.5
20	III	Complex Variables and Partial Differential Equations	<u>3130005</u>	Prof. D. A. Patel	4.2	83.0
21	III	Complex Variables and Partial Differential Equations	<u>3130005</u>	Prof. R. H. Chaudhary	3.8	76.1
22	III	Indian Constitution	<u>3130007</u>	Prof. V. K. Patel	4.2	84.3
23	III	Design Engineering - I A	3130008	Prof. P. N. Boka	4.2	84.5
24	III	Material Science and Metallurgy	3131904	Prof. A. K. Patel	4.1	82.4
25	III	Engineering Thermodynamics	3131905	Prof. S. K. Dabhi	4.0	80.9
26	III	Engineering Thermodynamics	3131905	Prof. N. T. Raval	4.1	82.5
27	III	Kinematics and Theory of Machines	3131906	Prof. A. R. Chaudhari	4.0	80.3
28	III	Effective Technical Communication	<u>3130004</u>	Prof. A. I. Roy	4.1	82.6

29	I	Environmental Studies	3110007	Prof. G M Savaliya	3.57	71.33
30	I	Mathematics-I	3110014-	Prof. R. H. Chaudhari	3.28	65.67
31	I	Mathematics-I	3110014	Prof. F. J. Narsingani	3.74	74.89
32	I	Engineering Graphics and Design	3110013	Prof. A. B. Patel	3.82	76.44
33	I	Engineering Graphics and Design	3110013	Prof. P. N. Boka	3.62	72.33
34	I	Engineering Graphics and Design	3110013	Prof. A. D. Patel	3.73	74.56
35	I	Environmental Studies	3110007	Prof. R. K. Rathod	3.68	73.67
36	I	Physics	3110011	Prof. K M Korot	4.17	83.44
37	I	Basics of Civil Engineering	3110004	Prof. R. K. Rathod	3.63	72.67
38	I	Basics of Civil Engineering	3110004	Prof. H. U. Patel	3.71	74.22

## A.Y. 2021-22[ODD Term] Phase-2

Sr. No.	Sem	Subject Name	Subject Code	Faculty	Average Rating out of 5	% Rating
1	VII	Advanced Machine Design	3171925	Prof.A.D.Patel	4.3	86.3
2	VII	Automation in Manufacturing	3171922	Dr.J.A.Vadher	4.2	84.6
3	VII	Automation in Manufacturing	3171922	Prof.N.A.Patel	4.3	85.9
4	VII	Design of Machine Element	3171917	Prof.A.D.Patel	4.5	89.1
5	VII	Design of Machine Element	3171917	Prof.V.K.Patel	3.9	78.7
6	VII	Industrial Internet of Things	3171930	Dr.J.A.Vadher	4.4	88.0
7	VII	Industrial Internet of Things	3171930	Prof.N.T.Raval	3.8	75.3
8	VII	Internal Combustion Engine	3171923	Prof.S.K.Dabhi	4.3	86.3
9	VII	Power Plant Engineering	3171910	Prof.A.B.Patel	4.1	81.9
10	V	Design Engineering li-A	3150001	Prof. A. R. Chaudhari	3.7	74.5
11	V	Dynamics Of Machinery	3151911	Prof. A. R. Chaudhari	4.0	79.9
12	V	Dynamics Of Machinery	3151911	Prof. P. N. Boka	4.2	84.6
13	V	Heat Transfer	3151909	Prof. V. D. Patel	4.5	89.8
14	V	Integrated Personality Development Course	3150005	Dr. K. B. Judal	4.2	83.2

15	V	Manufacturing Technology	3151912	Prof. A. K. Patel	4.4	88.3
16	V	Oil Hydraulics And Pneumatics	3151913	Prof. N. A. Patel	4.3	85.2
17	V	Oil Hydraulics And Pneumatics	3151913	PROF. V. K. Patel	3.7	73.8
18	V	Operation Research	3151910	DR. J. A. VADHER	4.1	82.6
19	V	Operation Research	3151910	PROF. N. T. RAVAL	3.7	74.1
20	V	Complex Variables and Partial Differential	<u>3130005</u>	Prof. D. A. Patel	3.9	78.0
21	V	Complex Variables and Partial Differential	<u>3130005</u>	Prof. R. H. Chaudhary	3.4	68.6
22	V	Indian Constitution	<u>3130007</u>	Prof. V. K. Patel	3.4	67.3
23	V	Design Engineering - I A	3130008	Prof. P. N. Boka	3.3	66.2
24	V	Material Science and Metallurgy	3131904	Prof. A. K. Patel	3.8	75.8
25	III	Engineering Thermodynamics	3131905	Prof. S. K. Dabhi	3.4	67.2
26	III	Engineering Thermodynamics	3131905	Prof. N. T. Raval	3.4	68.2
27	III	Kinematics and Theory of Machines	3131906	Prof. A. R. Chaudhari	3.7	73.5
28	III	Effective Technical Communication	<u>3130004</u>	Prof. D. N. S.	3.4	68.1
29	III	Kinematics and Theory of Machines	3131906	Prof. P. N. Boka	3.7	74.5

**A.Y. 2021-22[EVEN TERM] PHASE-1**

<b>Sr. No.</b>	<b>Sem</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Faculty</b>	<b>Average Rating out of 5</b>	<b>% Rating</b>
1	VI	Advanced Manufacturing Processes	3161922	Prof. A. R. Chaudhari	4.5	90.1
2	VI	Advanced Thermodynamics	3161910	Prof. S. K. Dabhi	4.4	87.7
3	VI	Automobile Engineering	3161920	Prof. A. D. Patel	4.8	96.5
4	VI	Basics Of Industrial Engineering	3161907	Dr. J. A. Vadher	4.5	89.8
5	VI	Computer Aided Design	3161903	Dr. N. A. Patel	4.8	96.8
6	VI	Computer Aided Manufacturing	3161917	Dr. N. A. Patel	4.6	93.0
7	VI	Design Engineering II-B	3140005	Prof. A. B. Patel	4.6	91.3
8	VI	Industry 4.0	3161926	Dr. J. A. Vadher	4.6	92.7
9	VI	Industry 4.0	3161926	Dr. N. A. Patel	4.4	87.6
10	VI	Ipdc	3160003	Dr. K. B. Judal	4.6	91.9
11	VI	Renewable Energy Engineering	3161914	Prof. A. B. Patel	4.5	89.1
12	IV	Design Engineering I B	3140005	Prof. A B Patel	4.11	82.11
13	IV	Design Engineering I B	3140006	Prof. A D Patel	3.93	78.51
14	IV	Design Engineering I B	3140007	Prof. A R Chaudhary	3.76	75.28



15	IV	Fluid Mechanics And Hydraulic Machines	3141906	Prof. V D Patel	4.14	82.72
16	IV	Fundamental Of Machine Desing	3141907	Prof. A D Patel	3.82	76.33
17	IV	Fundamental Of Machine Desing	3141907	Prof. P N Boka	3.78	75.67
18	IV	Mechanical Measurement And	3141905	Prof. A K Patel	4.48	89.56
19	IV	Manufacturing Processes	3141908	Prof. A K Patel	4.11	82.11
20	IV	Manufacturing Processes	3141908	Prof. J A Vadher	4.00	79.94
21	IV	Operational Behaviour	3141909	Prof. J A Vadher	3.92	78.45
22	IV	Operational Behaviour	3141910	Prof. S K Dabhi	4.21	84.28
23	II	Basics of Mechanical Engineering	3110006	Prof. V D Patel	4.31	86.16
24	II	Basics of Mechanical Engineering	3110006	Prof. P N Boka	4.10	81.90
25	II	Programing for Problem Solvings	3110003	Prof. A R Chaudhari	4.21	84.29
26	II	Workshop Mechanical	3110012	Prof. S K Dabhi	4.07	81.43
27	II	Mathematics-II	3110015	Prof. R H Chaudhari	3.96	79.67
28	II	Mathematics-II	3110015	Prof. F. J. Narsingani	3.78	75.60
29	II	Environmental Studies	3110005	Prof. H N Chaudhari	3.93	78.57
30	II	Workshop Electrical	3110012	Prof. H V Hirvaniya	4.04	80.83

**A.Y. 2021-22[EVEN TERM] PHASE-2**

<b>Sr. No.</b>	<b>Sem</b>	<b>Subject Name</b>	<b>Subject Code</b>	<b>Faculty</b>	<b>Average Rating out of 5</b>	<b>% Rating</b>
1	VI	Advanced Manufacturing Processes	3161922	Prof. A. R. Chaudhari	4.2	83.3
2	VI	Advanced Thermodynamics	3161910	Prof. S. K. Dabhi	4.4	87.6
3	VI	Automobile Engineering	3161920	Prof. A. D. Patel	4.8	95.7
4	VI	Basics Of Industrial Engineering	3161907	Dr. J. A. Vadher	4.5	90.3
5	VI	Computer Aided Design	3161903	Dr. N. A. Patel	4.8	96.8
6	VI	Computer Aided Manufacturing	3161917	Dr. N. A. Patel	4.7	93.6
7	VI	Design Engineering Ii-B	3140005	Prof. A. B. Patel	4.2	84.7
8	VI	Industry 4.0	3161926	Dr. J. A. Vadher	4.7	93.3
9	VI	Industry 4.0	3161926	Dr. N. A. Patel	4.4	88.3
10	VI	Ipdc	3160003	Dr. K. B. Judal	4.3	85.1
11	VI	Renewable Energy Engineering	3161914	Prof. A. B. Patel	3.8	75.3
12	IV	Design Engineering I B	3140005	Prof. A B Patel	4.11	82.11
13	IV	Design Engineering I B	3140006	Prof. A D Patel	3.93	78.51
14	IV	Design Engineering I B	3140007	Prof. A R Chaudhary	3.76	75.28

15	IV	Fluid Mechanics And Hydraulic Machines	3141906	Prof. V D Patel	4.14	82.72
16	IV	Fundamental Of Machine Desing	3141907	Prof. A D Patel	3.82	76.33
17	IV	Fundamental Of Machine Desing	3141907	Prof. P N Boka	3.78	75.67
18	IV	Mechanical Measurement And	3141905	Prof. A K Patel	4.48	89.56
19	IV	Manufacturing Processes	3141908	Prof. A K Patel	4.11	82.11
20	IV	Manufacturing Processes	3141908	Prof. J A Vadher	4.00	79.94
21	IV	Operational Behaviour	3141909	Prof. J A Vadher	3.92	78.45
22	IV	Operational Behaviour	3141910	Prof. S K Dabhi	4.21	84.28

**MINING ENGINEERING DEPARTMENT**

## Semester I

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	PPS 3110003		Nil		
2	BEE 3110005		Nil		
3	ES 3110007		Nil		
4	EG 3110013		Nil		
5	MATHS-I 3110014		Nil		

## Semester II

Sr No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	CHEMISTRY 3110001		Nil		
2	ENGLISH 3110002		Nil		
3	BCE 3110004		Nil		
4	BME 3110006		Nil		
5	WS 3110012		Nil		
6	MATHS – II 3110015		Nil		

## Semester III

Sr No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	ETC 3130004	A I Roy/ Digvijay Solanki	271	300	90.3
2	CVPDE 3130005	R. H. Chaudhary/ D A Patel	273	300	91
3	IC 3130007	DR. C G PRAJAPATI/H.N.CHA UDHARY	270	300	90
4	DE-1A 3130008	H B Patel	269	300	89.7
5	MOS 3130608	P C Vasani	271	300	90.3
6	IM 3132201	J V Modi/Vikesh Prajapati	270	300	90
7	GEOLOGY 3132203	H B Patel	268	300	89.3

## Semester IV

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	DE-1B 3140005	H B Patel	272	300	90.67
2	MS-I 3142202	Faculty not allotted		300	
3	MM-I 3142201	Suraj Kumar	273	300	91.0
4	MMGS 3142207	Sachin Khatri	257	300	85.67
5	MG 3142208	H B Patel	275	300	91.67
6	RM 3142209	J V Modi	276	300	92.0

## Semester V

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	DE – IIA 3150001	J V Modi	621	660	94.1
2	MS – II 3152208	J V Modi	626	660	94.8
3	UCM 3152206	Suraj Kumar	624	660	94.5
4	ML 3152207	Prakash Darji/Sachin Khatri	613	660	92.9
5	MM-2 3152201	Suraj Kumar	626	660	94.8
6	IPDC 3150005	C.G.Prajapati	576	660	87.3
7	HRM 3152209	H B Patel	612	660	92.7

## Semester VI

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	DE – IIB 3160001	J V Modi	652	660	98.8
2	IPDC 3160003	C.G.Prajapati	607	660	91.9
3	UMM 3162202	J V Modi	653	660	98.9
4	MH 3162204	Sachin Khatri	625	660	94.7
5	MV 3162207	Suraj Kumar	649	660	98.3
6	DBT 3162211	Sachin Khatri	626	660	94.8
7	EM 3162213	H B Patel	647	660	98.0

## Semester VII

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	MP 3172208	Prakash Darji	928	1080	85.9
2	AMM 3172211	Sachin Khatri/Suraj Kumar	988	1080	91.5
3	RF 3172213	Suraj Kumar	993	1080	91.9
4	DST 3172214	Prakash Darji/Suraj Kumar	951	1080	88.1
5	RET 3172216	J V Modi	983	1080	91
6	SE 3172217	Prakash Darji	961	1080	89
7	SUMMER INTERNSHIP 3170001	J V Modi/Suraj Kumar	1005	1080	93.1

## Semester VIII

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Performance %
1	Internship/Major Project 3182201	J V Modi/ Suraj Kumar	1062	1140	93.2

## **CO-CURRICULAR ACTIVITIES**

## CO-CURRICULAR ACTIVITIES

### A. Induction Program

(For 1<sup>st</sup> year students)

From: 11/10/2021 to 16/10/2021 (A. Y.: 2021-22)

#### Background

Induction Program was discussed and approved for all colleges by AICTE in March 2017. It was discussed and accepted by the Council of IITs for all IITs in August 2016. It was originally proposed by a Committee of IIT Directors and accepted at the meeting of all IIT Directors in March 2016. Gujarat technological university had accepted to implement the course Student Induction Program with university subject code 3110017 from academic year 2018-19.

#### Preamble

The goal of engineering education is to train engineering graduates well in branch of admission, have a holistic personality and must have desire to serve society and nation. It is expected that an engineering graduate work for solving the problems of society using the modern technologies and practices. That needs the broad understanding of the society and relationships. It is needed to cultivate the human values in engineering graduates to fulfil his responsibilities as an engineer, a citizen and a human being.

Considering the various social backgrounds and whether a student comes from the urban or rural areas they differ in many of the life skills and their abilities and thinking. There branch of admission may be due to rush; their interest in subject is question. They are facing the issues like hostel and settlements, pressures from peers and many related issues. To overcome such issues, it is necessary to create an environment for students so that they feel comfortable, find their interest and explore their inner beings, create bonding with other students, establish relation with teachers, work for excellence, get a broader view of life and practice human values to build characters. The Induction Program covers the various activities which enables them to overcome all such issues and motivates them to perform well in their chosen branch of admission.

3-week long induction program was proposed for the UG students entering the institution, right at the start. Normal classes start only after the induction program is over. Its purpose is to take the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

#### Scheme

Following scheme for the induction program was suggested by Gujarat technological university (w.e.f. Oct. 2021):

S. N.	Phase and Activities Heads	Weightage
1.	Initial Phase	1 day (6 Hrs)
2.	Regular Phase	13 Days
a)	Physical activity	24 Hours



b)	Creative Arts	12 Hours
c)	Universal Human Values	12 Hours
d)	Literary	12 Hours
e)	Proficiency Modules	6 Hours
f)	Lectures by Eminent People	3 Hours: 3 Expert Lectures, One per Week
g)	Visits to local Areas or Industry	1 Day
h)	Innovations	3 Hours
3.	Closing Phase	1 Day (6 Hrs)
<b>Total</b>		<b>90 Hours</b>

### Institute Induction Program Cell

To run this program successfully Institute Induction Program Cell (IIPC) was designed on 02/06/2018 with one convener and three members. The office order was revised on 28/01/2020. As per new office order following are the committee members of IIPC:

Sr. No.	Name of Officer	Designation	Position in committee
1	Prof. A. D. Patel	Asst. Professor, Mech	Convener
2	Dr. C. G. Prajapati	Asst. Professor, General	Convener
3	Prof. K. G. Prajapati	Asst. Professor, Elect.	Member
4	Prof. S. G. Chauhan	Asst. Professor, Civil	Member
5	Prof. J. V. Modi	Asst. Professor, Mining	Member

Duty was assigned to IIPC is to carry out the activities and successful implementation of three week mandatory student induction program at the institute.

### FDPs by IIPC members

1. First Faculty development program for 3 days was held from 5/6/18 to 7/6/18 at Ganpat University, Kherva. Prof. A. D. Patel, Prof. K. G. Prajapati and Prof. Jugnu H. Patel had attended this program.
2. Second Faculty development program for 7 days was held from 30/6/18 to 6/7/18 at GTU, Ahmedabad. Prof. A. D. Patel, Prof. K. G. Prajapati and Prof. S. G. Chauhan had attended this program.
3. Online FDP on “Inculcating Universal Human Values in Technical Education” was arranged from 26-4-20 to 30-4-20. It was attended by Prof. A. D. Patel.
4. Online FDP on “Part 1 of UHV Refresher 1” organized by AICTE from 23/11/2020 to 27/11/2020. It was attended by Prof. A. D. Patel.

**Institute Time Table for Induction Program**

To run induction program as per the above mentioned scheme following time table was prepared:

Date	Day	Time	Activity	Staff	
				Civil+ Mining	Elect+ Mech
11-10-21	MON	10:30 to 12:30	Initial Phase (Familiarization with College/Department)	SGC	KGP/JV M
		1:00 to 3:00	Creative Arts	RHC	FJN
		3:10 TO 4:10	Innovation	HUP	PNB
		4:10 to 6:10	Physical Activity	DAP	KMK
12-10-21	TUE	10:30 to 12:30	Universal Human Values	CGP	ADP
		1:00 to 3:00	Creative Arts	RHC	FJN
		3:10 TO 4:10	Proficiency Module	MKP	HVH
		4:10 to 6:10	Physical Activity	DAP	KMK
13-10-21	WED	10:30 to 12:30	Universal Human Values	CGP	ADP
		1:00 to 3:00	Creative Arts	RHC	FJN
		3:10 TO 4:10	Proficiency Module	MKP	HVH
		4:10 to 6:10	Physical Activity	DAP	KMK
14-10-21	THU	10:30 to 12:30	Universal Human Values	KGP	SGC
		1:00 to 3:00	Proficiency Module	MKP	HVH
		3:10 TO 4:10	Innovation	HUP	PNB
		4:10 to 6:10	Literacy	DAP	HUP
16-10-21	SAT	10:30 to 12:30	Universal Human Values	KGP	SGC
		1:00 to 3:00	Proficiency Module	MKP	HVH
		3:10 TO 4:10	Innovation	HUP	PNB
		4:10 to 6:10	Literacy	DAP	HUP

**Activities Performed during Induction Program**1. Initial Phase (First Day)

Following are the activities which were planned and executed for initial day (11/10/21):

- Know your Department/Institute
- Know your university
- Know hostel and other amenities
- Information about Student Diary and Induction Program

2. Regular phase (16/10/20 to 27/10/20)

The Regular Phase was of 9 days, each day was of 7 hours. It covered all the 7 different activity modules.

(a) Physical Activity

Following activities were covered for 24 hours.

- i. Every day for 30 min various yard work, tree plantation, tree/plant maintenance, Gardening, cleanliness etc.
- ii. For 30 min every day for the awareness regarding how and why to do Yoga is planned.
- iii. Various outdoor Sports and Indoor Games like મંડલ અંદર, વિષ-અમૃત, ઝેરી દેડકો, કબડ્ડી, ખો, મેદાન, etc. were Included. Students were enjoyed these all games very much.



### (b) Creative Arts

Following activities were covered for 12 hours:

On the very first day of this activity all the students were bifurcated as per their area of interest. Selected arts were Drawing, Painting, Craft, and Dance etc. Demonstrated the story of leaders with the context of how with their creative vision, with all odds they achieved success.



During this activity student had got good exposure to their artist ability, creativity and imagination. Students were equipped with tools and techniques.

(c) Universal Human Values

Following activities were covered for 12 hours:

- i. Students made aware regarding environmental issues and remedies
- ii. Students were taught the difference between **SUKH** and **SUVIDHA**. Initiated the process of self-exploration and self-investigation within themselves about their understanding of happiness.
- iii. Conducted universal human values group discussions.



(d) Literary

Following activities were covered for 12 hours:

- i. Digital literacy
- ii. Use of Internet
- iii. Basic Mathematics for Solving Real World Problems
- iv. Use of Scientific Calculator in Engineering
- v. Vedic Mathematics
- vi. Reading/writing/speaking/listening
- vii. Elocution/Debate





By these activities students would be developed their thinking skills and improved reading abilities and attitude. Students were motivated to create the nature of inquiry and reading habits.

(e) Proficiency modules

Following activities were covered for 6 hours:

- i. To conduct this module English teacher was hired from external source.
- ii. To determine student's English proficiency level, general English diagnostic test in form of MCQ and formal both were taken. According the result students were grouped in satisfactory, satisfactory and good level.
- iii. Learnt them vocabulary, idioms, and expressions and understand their meanings in context.
- iv. Developed ability to write a paragraph about general topics by using the English language correctly.
- v. Students are mentored to improve in English language according to his/her proficiency level based on test.
- vi. Students were directed to see documentary and played a language games.
- vii. One session of essay and story writing was conducted.



(f) Visit to Local Area and Industry

Due to covid-19 pandemic, it was not feasible to arrange visit to industry or local area. Students were made aware with the industry field of engineering and the actual field work.

(g) Innovation

Three sessions each of one hour were conducted under innovation. Detailed contents of the session are:

Sr. No.	Date	Time	Content	Staff
1	11/10/21	3:10 to 4:10	Lectures by senior faculties	Dr. K. B. Judal
2	14/10/21	3:10 to 4:10	Awareness regarding SSIP Scheme	Prof. N. A. Patel
3	16/10/21	3:10 to 4:10	Awareness regarding Entrepreneurship	Prof. P. N. Boka

During this session student are made aware with innovative and modern practices and products in particular discipline.

3. Closing Phase (Last Day)

Following are the activities which were carried on the last day (16/10/2021):

- Conclusion of the Induction Program.
- Students were guided for preparation of student report.
- Students were instructed regarding submission and examination pattern of the Induction Program.
- There was a feedback session regarding the way by which induction program conducted in the institute. 2-3 students from all branches had given their feedback. They all have appreciated the mode and contents of program conducted. They all were very much thankful to Principal and the faculties who were concern with this induction program.
- Students were made familiarize with department infrastructure, laboratory setup, staff seating and class rooms.

## B. Personality Developments

Following webinar has been arranged for personality development of students

Sr. No.	Date	Topic	Name of Expert	Name of coordinator
1	28/01/2022	Expert Talk on “The emerging challenges related to Water Conservation, Accumulation and Management”.	Dr. P. V. Timbadiya, Associate Professor, Department of Civil Engineering, SVNIT, Surat Gujarat, India	Dr. G. M. Savaliya and Prof. P. C. Vasani

## C. Career Guidance/Gate Counseling/Mock Interview

Following webinar has been arranged for personality development of students

Sr. No.	Date	Topic	Name of Expert	Name of coordinator
1	03-05-2022	Expert Talk on Foundation Engineering, preparation of competitive Exams	Prof. P. C. Vasani	Dr. G. M. Savaliya

## D. Finishing School

Institute has organized skill development training through finishing school. Our college allocated first Set-A and Set-C of twenty hours of training each in four batches as mentioned in the following table. The registered students have participated in the first twenty hours training.

These sessions were lead by empanelled trainers, who executed the assigned task in most interactive way. The topics covered were mainly focused on employability skills and life skills providing a thinking approach. Course broadly covered *Grooming & Personal Hygiene, Body Language, Time Management & Punctuality, Leadership Skills & Following Directions, Planning & Organizational Skills, Professional Ethics, Cover Letter, Resume Writing, Presentation Skill, Group Discussion, Interview Skills, Efficiency, Everyday English and facing interviewing and most importantly engaging themselves for further enhancement with self-consciousness for speaking third language.* They were informed what is expected by post globalised millennial child in terms of employability as fresher.

**A.Y. 2021-22**

Total **184 (4<sup>th</sup> year)** and **180 (3<sup>rd</sup> Year)** students registered and participated in finishing school training program in academic year 2021-22.

Sr. No.	Name of training	Start Date	End Date	Number of Beneficiary	Beneficiary from Civil	Beneficiary from Mechanical	Beneficiary from Electrical	Beneficiary from Mining
1	Set-A First Phase of 20 hours for Batch 22	4/10/2021	8/10/2021	56	56	-	-	-
2	Set-A First Phase of 20 hours Batch 23-24	25/10/2021	29/10/2021	68	-	50	-	18
3	Set-C Second Phase of 20 hours for Batch 22-23-24 & Set-A First Phase of 20 hours for Batch 25 (Electrical)	03/01/2022	07/01/2022	184	56	50	60	18
4	Set-A First Phase of 20 hours for Batch 26-27-28-29 (ALL Branches)	7/3/2022	11/3/2022	180	67	53	50	10





## E. Open House/Tech Events/Poster Presentations/Tech Days

Following events are organized under the umbrella of “PRAXES”

Name of Event	Name of Faculty coordinator	Name of Student coordinator	Semester
ROBOTICS	Prof. A. R. Chaudhary	Ravi Chauhan	6 <sup>th</sup> Mech
		Brijesh Rajaput	6 <sup>th</sup> Mech
	Prof. A.K.Patel	Abid Husen	6 <sup>th</sup> Ele
PROJECT EXIBITION	Prof. R.H.Chaudhary	Kuldip Raval	6 <sup>th</sup> Mech
		Abishek Prajapati	6 <sup>th</sup> Civil
	Prof.S.L.Modi	Anil Pargi	6 <sup>th</sup> Ele
RANGOLI COMPITATION	Dr.F.J.Narsangini	Haitali Patel	6 <sup>th</sup> Civil
		Preksha Prajapati	6 <sup>th</sup> Civil
	Prof.V.H.Khokhani	Bhavna Patel	3 <sup>rd</sup> Ele
Quiz-O-Tech	Prof. M. G. Prajapti	Brijal Chaudhary	6 <sup>th</sup> Civil
		Prof.S.K.Dabhi	Rajesh Prajapati
		Harshal Bavaliya	6 <sup>th</sup> Ele
CONSTRUCTO	Prof. Y.J.CHAUHAN	Shital Makwana	6 <sup>th</sup> Civil
		Saurav Prajapati	6 <sup>th</sup> Civil
	Prof.N.R.Kotiya	Abhishek Prajapati	6 <sup>th</sup> Civil
LAN GAME	Prof. J.H.Patel	Ronak Patel	6 <sup>th</sup> Mech
		Prof.K.G.Prajapati	Chirag Kanjariya
		Hiten Makwana	6 <sup>th</sup> Civil
TRESURE HUNT	Prof. H.N.Chaudhary	Hemangini Makwana	6 <sup>th</sup> Civil
		Prof.V.D.Patel	Meen Patel
		Rushil Suthar	6 <sup>th</sup> Ele
POSTER PRESENTATION	Dr.A.M.Patel	Krish Bhatt	3 <sup>rd</sup> Mech
		Prof.P.N.BOKA	Gaurang Gurajar
		Arti Panchal	3 <sup>rd</sup> Ele
BEST OUT OF WEST	Prof.R.H.Chaudhary	Anil Bharti	6 <sup>th</sup> Civil
		Smt.K.P.Shah	Cahuhan Smit
		Katara Payal	6 <sup>th</sup> Civil
		Chavada Sunil	6 <sup>th</sup> Ele
		Mitul Mevada	6 <sup>th</sup> Mech

## F. Entrepreneurship Development Initiatives

### Introduction

The Centre for Entrepreneurship Development (CED)-A Government of Gujarat Organisation is the 1st of this kind in the country, established in 1979, engaged in promoting Skill and Entrepreneurship across the state of Gujarat. **Concept behind CED is to develop entrepreneurs in the urban as well as rural areas of the state, who can establish their own Enterprise (Trading/Service/Manufacturing) which in turn aids in economic growth of the state and also creates employment opportunities for others.**

*"Now a days in the era of cut throat competition there is a limited scope of job opportunities hence it is very essential to think over other alternative options. An individual can become self reliant and economically sound when he put his 100% efforts in the different direction of Self Employment."*

### Objectives:

- To sensitize BE students to be an entrepreneur and contribute to GDP of the Country.
- To inculcate Entrepreneurship skills in Students of GEC Palanpur.

### Establishment:

Government Engineering College, Palanpur has developed Entrepreneurship Development Cell (EDC) with programme Coordinator and two members on 01/07/2017. Institute has applied for District level Entrepreneurship Development Centre on 21th November, 2017. On 19<sup>th</sup> December, 2017 “The Centre for Entrepreneurship Development, Ahmedabad” (CED) was became agree to support us as knowledge partner for business counseling cell named has Entrepreneurship Development Cell (EDC).

In order to activate the cell, on 23<sup>rd</sup> January, 2017, A “Training of Trainers” was organized by CED, Ahmedabad. Prof. P. N. Boka, Prof. A. D. Patel and Prof. A. R. Chaudhari had attended the training.

Following activities are carried out in ED Cell.

Sr. No.	Events Name	Date
1	Entrepreneurship Development Programme (EDP-II -General)	09-04-2019 to 25-04-2019
2	Human Resource Development	21-12-2019
3	Webinar on “Know your Self”	06-01-2022

## G. Summer Training

Sr No.	Name of Industry	Training starts from	Training ends on	Duration	No. of Student	Department
1	GPC infrastructure. Ltd.	20-06-2022	09-07-2022	2 weeks	1	Civil
2	OMNIUM INFRACON	21-06-2022	05-07-2022	2 weeks	1	Civil
3	PWD R&B	23-06-2022	09-07-2022	2 weeks	1	Civil
4	JRA INFRASTRUCTURE L. T. D DEESA	20-06-2022	09-07-2022	2 weeks	1	Civil
5	JRA infrastructure L.T.D deesa	20-06-2022	09-07-2022	2 weeks	1	Civil
6	Shri Giriraj Construction Infratech Pvt. Ltd.	22-06-2022	09-07-2022	2 weeks	1	Civil
7	KRC infra projects Pvt Ltd	20-06-2022	09-07-2022	2 weeks	1	Civil
8	Ananta procon Pvt.ltd (Sublate patel engineers & parterns))	20-06-2022	06-07-2022	2 weeks	1	Civil
9	GPS infrastructure.Ltd.	20-06-2022	09-07-2022	2 weeks	1	Civil
10	VIN CONSULTANTS	20-06-2022	10-07-2022	2 weeks	1	Civil
11	GPS infrastructure.Ltd.	20-06-2022	09-07-2022	2 weeks	1	Civil
12	Ravi Infrabuild Pvt Ltd	18-06-2022	02-07-2022	2 weeks	1	Civil
13	GPS infrastructure.Ltd.	20-06-2022	09-07-2022	2 weeks	1	Civil
14	GPS infrastructure. Ltd.	20-06-2022	09-07-2022	2 weeks	1	Civil
15	Max infra ltd Rvnl project. Himachal Pradesh	22-06-2022	09-07-2022	2 weeks	1	Civil

16	Ravi infrabuild Pvt Ltd	18-06-2022	02-07-2022	2 weeks	1	Civil
17	Tesla Electricals	23-06-2022	09-07-2022	2 weeks	1	Civil
18	Gopi construction	21-06-2022	09-07-2022	2 weeks	1	Civil
19	GPS infrastructure.Ltd	20-06-2022	09-07-2022	2 weeks	1	Civil
20	Aakruti consultant	20-06-2022	05-07-2022	2 weeks	1	Civil
21	Extension Centre - Rajkot, MSME Technology	20-06-2022	03-07-2022	2 weeks	1	Civil
22	Extension Centre - Rajkot, MSME Technology	20-06-2022	03-07-2022	2 weeks	1	Civil
23	OM SHAKTI CONSTRUCTION	21-06-2022	09-07-2022	2 weeks	1	Civil
24	Dream Consultancy	20-06-2022	04-07-2022	2 weeks	1	Civil
25	Dream Consultancy	20-06-2022	04-07-2022	2 weeks	1	Civil
26	CHAMUNDA EARTH MOVERS	21-06-2022	05-07-2022	2 weeks	1	Civil
27	Kashi developers	20-06-2022	03-07-2022	2 weeks	1	Civil
28	ASTHA GROUP	20-06-2022	07-07-2022	2 weeks	1	Civil
29	ASTHA GROUP	20-06-2022	07-07-2022	2 weeks	1	Civil
30	Sudarshan 28	20-06-2022	09-07-2022	2 weeks	1	Civil
31	Sudarshan 28	20-06-2022	09-07-2022	2 weeks	1	Civil
32	ASTHA GROUP	20-06-2022	07-07-2022	2 weeks	1	Civil
33	Bhoomi consultants	22-06-2022	06-07-2022	2 weeks	1	Civil

34	Bhoomi consultants	22-06-2022	06-07-2022	2 weeks	1	Civil
35	Ranjit Buildcon Limited	20-06-2022	04-07-2022	2 weeks	1	Civil
36	Ranjit Buildcon Limited	20-06-2022	04-07-2022	2 weeks	1	Civil
37	Ajay Engineering Infrastructure Pvt Ltd	20-06-2022	09-07-2022	2 weeks	1	Civil
38	Alok developers	20-06-2022	09-07-2022	2 weeks	1	Civil
39	DGp RAILWAY CONSTRUCTION	21-06-2022	06-07-2022	2 weeks	1	Civil
40	Prakash Enterprises	20-06-2022	04-07-2022	2 weeks	1	Civil
41	L G CHAUDHARY	20-06-2022	05-07-2022	2 weeks	1	Civil
42	Rakesh construction co.	20-06-2022	09-07-2022	2 weeks	1	Civil
43	Aakruti structure engineers	20-06-2022	05-07-2022	2 weeks	1	Civil
44	Rakesh construction co.	20-06-2022	09-07-2022	2 weeks	1	Civil
45	Rakesh construction co.	20-06-2022	09-07-2022	2 weeks	1	Civil
46	GPC infrastructure ltd.	20-06-2022	05-07-2022	2 weeks	1	Civil
47	GPC INFRASTRUCTURE LTD.	20-06-2022	15-07-2022	2 weeks	1	Civil
48	GPC INFRASTRUCTURE LTD.	20-06-2022	05-07-2022	2 weeks	1	Civil
49	GPC INFRASTRUCTURE LIMITED.	20-06-2022	05-07-2022	2 weeks	1	Civil
50	GPC INFRASTRUCTURE LTD.	20-06-2022	07-05-2022	2 weeks	1	Civil
51	Vishwam buildcon	20-06-2022	05-07-2022	2 weeks	1	Civil

52	Veer developer	20-06-2022	09-07-2022	2 weeks	1	Civil
53	Anil construction	20-06-2022	09-07-2022	2 weeks	1	Civil
54	Trimurti Developers	20-06-2022	03-07-2022	2 weeks	1	Civil
55	CHAMUNDA EARTH MOVERS	20-06-2022	05-07-2022	2 weeks	1	Civil
56	Pramukh Creation	20-06-2022	05-07-2022	2 weeks	1	Civil
57	Pramukh creations	20-06-2022	05-07-2022	2 weeks	1	Civil
58	Gajanan paredies villa	20-06-2022	09-07-2022	2 weeks	1	Civil
59	SUHANA INFRA	20-06-2022	09-07-2022	2 weeks	1	Civil
60	Gajanan paredice villa	20-06-2022	09-07-2022	2 weeks	1	Civil
61	Vikram infrastructure company	20-06-2022	09-06-2022	2 weeks	1	Civil
62	JAYDIPDARSHAN Consultants Pvt. Ltd.	24-06-2022	09-07-2022	2 weeks	1	Civil
63	Kunal structure india pvt.ltd	20-06-2022	09-07-2022	2 weeks	1	Civil
64	THE DESIRE BUNGALOWS (Trimurti developers)	20-06-2022	03-07-2022	2 weeks	1	Civil
65	Vishwam Buildcon	20-06-2022	05-07-2022	2 weeks	1	Civil
66	GPC INFRASTRUCTURE LTD.	20-06-2022	05-07-2022	2 weeks	1	Civil
67	Pramukh creations	21-06-2022	05-07-2022	2 weeks	1	Civil
68	Tulsi villa gardenia	20-06-2022	06-07-2022	2 weeks	1	Civil
69	Ananta Procon Pvt.Ltd ( sublate Patel engineers & Partners)	20-06-2022	06-07-2022	2 weeks	1	Civil

70	Tulsi Villa Gardenia	20-06-2022	06-07-2022	2 weeks	1	Civil
71	Guruji developers	20-06-2022	06-07-2022	2 weeks	1	Civil
72	Vishwakarma Yojana, Phase X (Project)	23-06-2022	08-07-2022	2 weeks	1	Civil
73	Vishwakarma Yojana phase-X	23-06-2022	08-06-2022	2 weeks	1	Civil

Sr No	Name of Industry	Date	Duration	No. of Student	Department
1	ACCUTECH AUTOMATION	20/06/2022	15 Days	6	Electrical
2	AMEE Electrical	20/06/2022	15 Days	3	Electrical
3	Ascent electrification	21/06/2022	15 Days	1	Electrical
4	Bosch Rexroth India Private Limited	20/06/2022	15 Days	2	Electrical
5	CAPTAIN PUMP PVT.LTD.	20/06/2022	15 Days	5	Electrical
6	Chamunda Pharma machinery private limited	20/06/2022	15 Days	1	Electrical
7	Deendayal port authority	20/06/2022	15 Days	1	Electrical
8	Duke Plasto Technique Private Limited.	20/06/2022	15 Days	2	Electrical
9	Dwarkadhish Refrigeration	15/06/2022	15 Days	1	Electrical
10	Geeta machine Tools Pvt. Ltd.	15/06/2022	15 Days	1	Electrical
11	KAMLA ELECTRICAL	20/06/2022	15 Days	2	Electrical
12	KHETANI ELECTRONICS	20/06/2022	15 Days	1	Electrical
13	Khodal Electricals	20/06/2022	15 Days	1	Electrical
14	kokila electrical	20/06/2022	15 Days	1	Electrical
15	LUMAX INDUSTRIES	20/06/2022	15 Days	1	Electrical
16	Maruti Electric, (kundan water pump)	20/06/2022	15 Days	1	Electrical
17	MAYUR TRANSFORMERS WORKS	17/06/2022	15 Days	1	Electrical
18	Nature industries, Mehsana	20/06/2022	15 Days	1	Electrical
19	Neptune industry	20/06/2022	15 Days	1	Electrical
20	Nuclear Power corporation of india limited (a government of India enterprises) Kakrapar Site.	23/06/2022	15 Days	1	Electrical
21	Oil and natural gas corporation Limited (ONGC), Mehsana	21/06/2022	15 Days	4	Electrical
22	Om shree sai electrical	20/06/2022	15 Days	1	Electrical
23	Omtech engineering	20/06/2022	15 Days	1	Electrical
24	Patel Transformer Co.	20/06/2022	15 Days	2	Electrical
25	Ratanpprabha Motors	19/06/2022	15 Days	1	Electrical
26	Reliance pvt ltd.	20/06/2022	15 Days	1	Electrical
27	Vardhman pump and battery	20/06/2022	15 Days	1	Electrical

Sr No	Name of Industry with No. of students	Date	Duration	No. of Student	Department
1	Alpine Fibc Pvt. Ltd.	20/06/2022	15 Days	1	Mechanical
2	Ammann India Pvt. Ltd.	20/06/2022	15 Days	1	Mechanical
3	Banas Dairy, Palanpur (04)	21/06/2022	15 Days	4	Mechanical
4	Chamunda engineering and fabrication	20/06/2022	15 Days	1	Mechanical
5	Coach International Techniue Private Limited	20/06/2022	15 Days	1	Mechanical
6	Devdharay Industries (02)	20/06/2022	15 Days	2	Mechanical
7	Duck pipes Pvt Ltd.(04)	20/06/2022	15 Days	4	Mechanical
8	Echjay industry pvt. Ltd.	20/06/2022	15 Days	1	Mechanical
9	Fortuna Engineering Industries	15/06/2022	15 Days	1	Mechanical
10	Gokul Agri International Ltd.	15/06/2022	15 Days	1	Mechanical
11	Gujarat Narmada Valley Fertilizers & Chemicals Limited	22-06-2022 to 06-07-2022	15 Days	1	Mechanical
12	Halleys Kia (Halleys Kia Showroom And Workshop) (04)	23-06-2022 to 07-07-2022	15 Days	4	Mechanical
13	HLE Glascoat	22-06-2022 to 06-07-2022	15 Days	1	Mechanical
14	Indo German Tool Room	20-06-2022 to 09-07-2022	15 Days	1	Mechanical
15	Kirti Engineering	16-05-2022 to 30-05-2022	15 Days	1	Mechanical
16	Kisan Steel Industries	20-06-2022 to 04-07-2022	15 Days	1	Mechanical
17	Mahindra Shivam Sales Corporation (07)	15-05-2022 to 29-05-2022	15 Days	7	Mechanical
18	Maruti Suzuki Arena Vadaj	22-06-2022 to 09-07-2022	15 Days	1	Mechanical
19	N. K. Industries, Ahmedabad (02)	22-06-2022 to 06-07-2022	15 Days	2	Mechanical
20	N.K.P Pharma Pvt. Ltd (05)	02-07-2022 to 16-07-2022	15 Days	5	Mechanical



Sr No	Name of Industry	Date	Duration	No. of Student	Department
21	Rajratna Matalics Ltd.	28-06-2022 to 07-07-2022	15 Days	1	Mechanical
22	Rishil Enterprise	22-06-2022 to 06-07-2022	15 Days	1	Mechanical
23	Riya Hyundai - Riya Cars Pvt.Ltd.(02)	22-06-2022 to 09-07-2022	15 Days	2	Mechanical
24	Santosh Engineers	27-06-2022 to 09-07-2022	15 Days	1	Mechanical
25	Shivam Sales Corporation (03)	23-06-2022 to 11-07-2022	15 Days	3	Mechanical
26	Vintech Industries Pvt Ltd (02)	22-06-2022 to 06-07-2022	15 Days	2	Mechanical
27	Yash Autolink Pvt. Ltd (09)	22-06-2022 to 08-07-2022	15 Days	9	Mechanical

Sr No	Name of Industry	Date	Duration	No. of Student	Department
1	GMDC	17/01/2022 to 10/04/2022	12 weeks	06	Mining Engg.
2	Hindustan Zinc Limited	10/01/2022 to 03/04/2022	12 weeks	02	Mining Engg.
3	RCCPL Pvt. Ltd	10/01/2022 to 03/04/2022	12 weeks	05	Mining Engg.
4	Hutti Gold Mine	10/01/2022 to 03/04/2022	12 weeks	04	Mining Engg.
5	Vanraj Minerals & Mines	10/01/2022 to 03/04/2022	12 weeks	02	Mining Engg.

**Summary:**

Sr. No	Name Of Department	No. Company	No. Student
1	Civil Engineering Department	48	73
2	Electrical Engineering Department	27	45
3	Mechanical Engineering Department	27	60
4	Mining Engineering Department	5	19
<b>Total :-</b>		<b>107</b>	<b>197</b>

## H. Industrial Visits

### MECHANICAL ENGINEERING DEPARTMENT

<b>Sr. No.</b>	<b>Name of Industry</b>	<b>Date of Visit</b>	<b>Semester</b>
1	Indo-German Tool Room, Ahmedabad	25-04-2022	6
2	International Automobile Centre of Excellence, Gandhinagar	25/3/22	6

## I. Faculty-Industry Interaction Details with Field

Sr. No	Department	Name of Faculty	Name of Industry	Purpose For Association
1	Civil	Dr. G. M. Savaliya	Sai Villa Dreamhouse Pvt. Ltd.	Placement, Industrial Visit, Student Training
2		Prof. H. U. Patel	Ranjit Buildcon Limited	Placement, Student Project Student Training, Industrial Visit
3		Prof. M. N. Prajapati	SAICAD CENTER PATAN	Student Project Work, Training, Consultancy
4		Prof. N. R. Kotiya	SPAN Infrastructure material testing lab	Student Project Work, Student Training
5		Prof. R. K. Rathod	Bagwan Construction	Other, Working Site Visit
6		Prof. Y. J. Chauhan	SID	Student Project Work, Student Training
9	Electrical	Dr. Alpesh M. Patel	Mc Dermott Engineering Services Pvt. Ltd.	Knowledge sharing
10		Prof H N Chaudhari	Waaree Energy Ltd	To get knowledge regarding manufacturing practices in Solar PV Module
11		Prof H N Chaudhari	Gujarat Energy and Research Management Institute	Solar PV Training
12		Prof H N Chaudhari	GMR Gujarat Solar Pvt Ltd	Solar EPC Projects
13		Prof H N Chaudhari	Harsha Abacus Solar Pvt Ltd	Solar EPC Projects
14		Prof. H. V. Hirvaniya	IRM Energy	Placement
15		Prof. H. V. Hirvaniya	Zydus Hospira	Placement
16		Prof. H. V. Hirvaniya	Alpha Energy	Placement
17		Prof. H. V. Hirvaniya	PCB Planet	Placement
18		Prof. M. G. Prajapati	Leaftronics	Industrial Visit
19		Prof. M. G. Prajapati	PGCIL- Mudetha	Industrial Visit
20	Mining	Prof. J. V. Modi	GMDC	Industrial Training, Visit and Placement
21		Prof. J. V. Modi	Hutti Gold Mine	Industrial Training
22		Prof. Suraj Kumar	RCCPL Pvt. Ltd	Industrial Training and Placement
23		Prof. Suraj Kumar	Hindustan Zinc Ltd	Industrial Training, Visit

## **EXTRA-CURRICULAR ACTIVITES**

## EXTRA-CURRICULAR ACTIVITIES

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### A. National Day Celebration

**15TH AUGUST 2021**

India celebrated her 75<sup>th</sup> Independence Day on this August 15, 2021. Government Engineering College, Palanpur celebrated Independence Day of India with great enthusiasm and patriotic fervour. On the morning of August 15, 2022, our student-teachers conveyed their greetings to each other.

The programme commenced with all everyone singing together 'Vande Mataram' followed by Flag Hosting by Principal of the institute. The spirit of freedom and nationalism was well exhibited by the student-teachers of the institute through a spectrum of patriotic poems, speeches on freedom fighters and songs. A few of them spoke on the history and significance of the Independence Day and shed light on the special highlights of celebrations this year. The celebrations concluded with inspiring words of Dr. K. B. Judal (Principal) followed by the National Anthem and then distribution of sweets.

Total 30 students and 20 volunteers have participated with 30 faculty members to success the event.



**26<sup>th</sup> JANUARY 2022**

Government Engineering College Palanpur witnessed the celebration of the 73<sup>rd</sup> Republic Day on the 26th January, 2022. Students, Staff and Faculty members filled with a feeling of patriotism and dedication gathered in central garden of the institute. The celebration started with the hoisting of the National Flag by the Principal, Dr. K. B. Judal. In his speech, the principal highlighted the importance of the Constitution and its unique features such as Sovereign, Socialist, Secular, Democratic and Republic enshrined in the preamble of the constitution. He also gave an insight on the various accomplishments achieved by college and motivated the students for bringing more laurels for the college through their accomplishments. The speech was followed by the National Anthem. The program ended with the message to create a great nation through collective efforts from all individual.

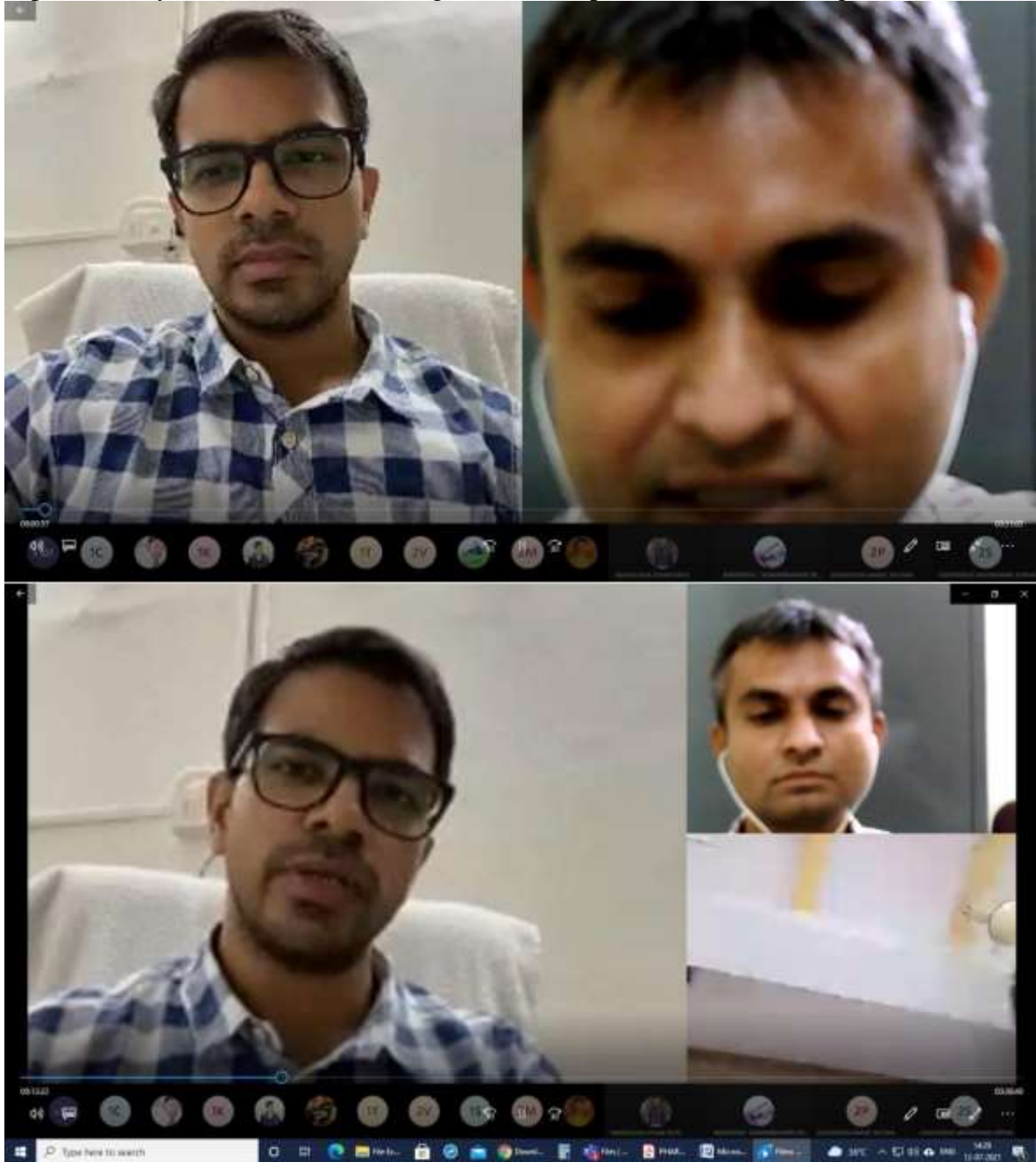
Total 50 students and 15 volunteers have participated with 32 faculty members to success the event.



## B. NSS Activities

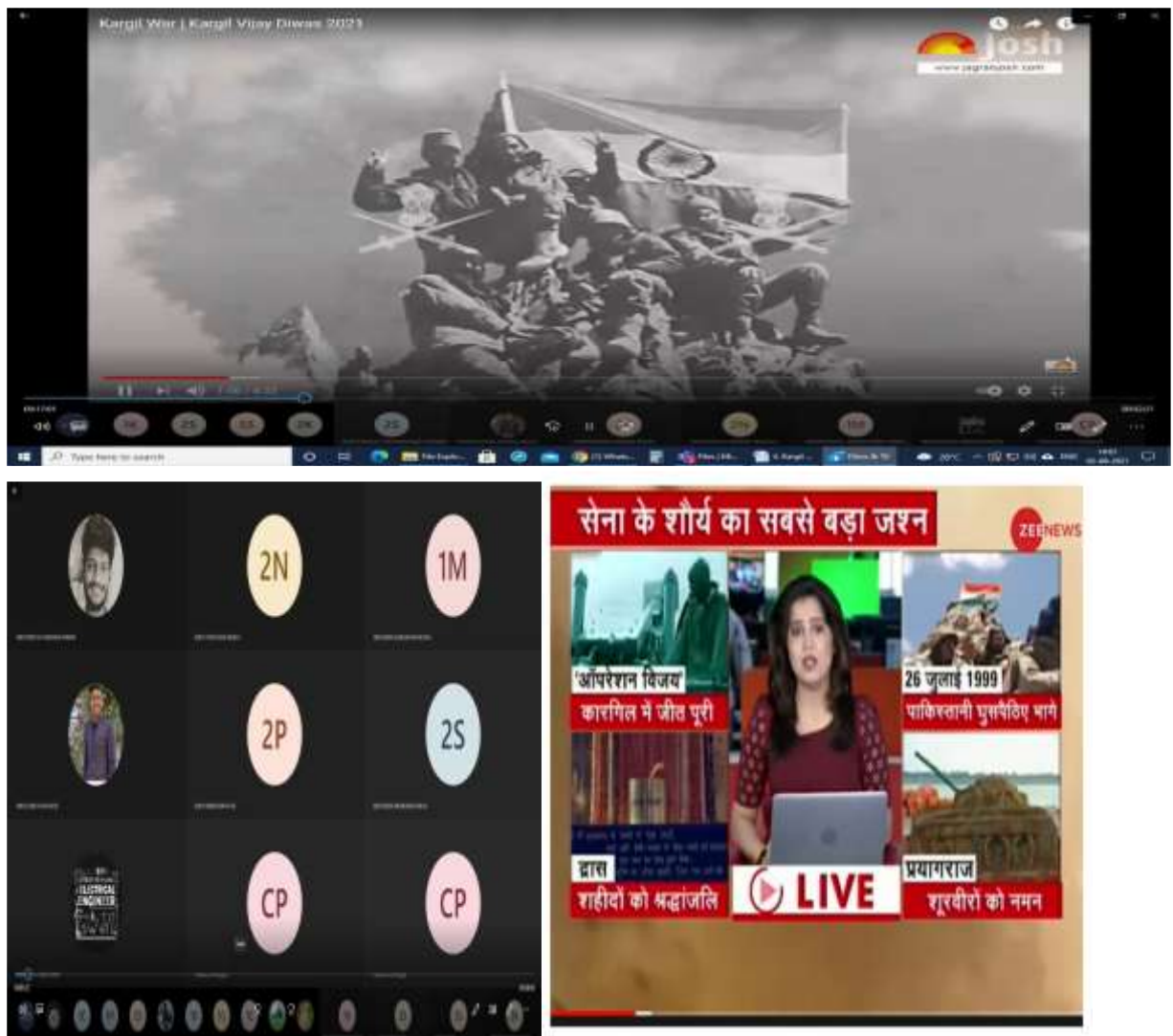
### 1. Role of Engineers to Maintain the Environment

NSS unit GEC Palanpur organized webinar on “Role of Engineers to Maintain the Environment” on 12<sup>th</sup> July 2021 at Government Engineering College Palanpur. The speaker Mr. Abhay Singh (IFS) had been invited from Palanpur Forest Department, Palanpur, he explained very well about the How engineers are important for maintaining the environment.



## 2. Kargil Vijay Divas

GEC Palanpur, NSS Unit organized a webinar on the celebration of “Kargil Vijay Divas” on 26th July 2021 at Government Engineering College. 150+ students participated in this celebration.





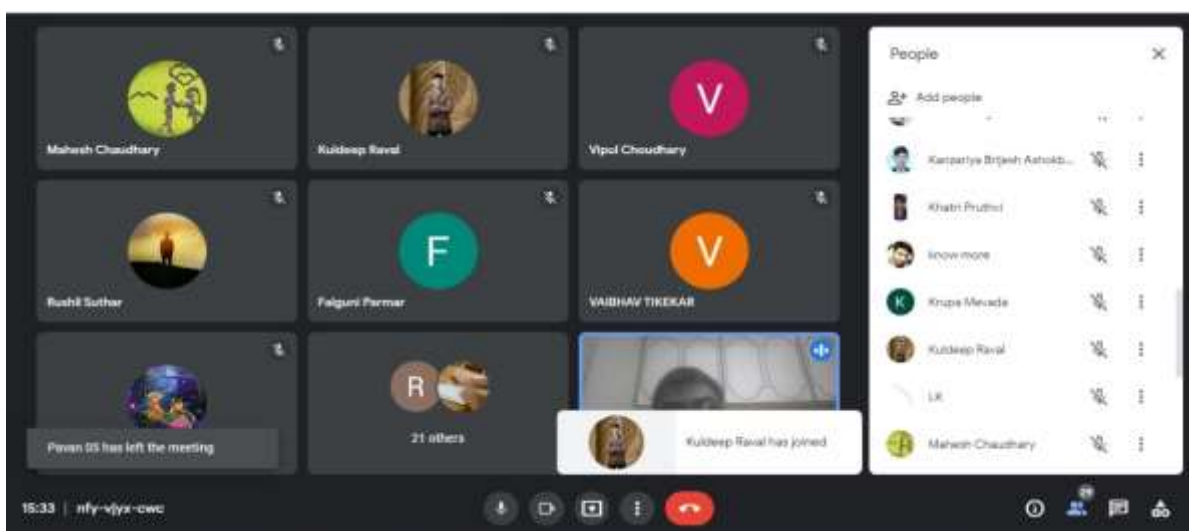
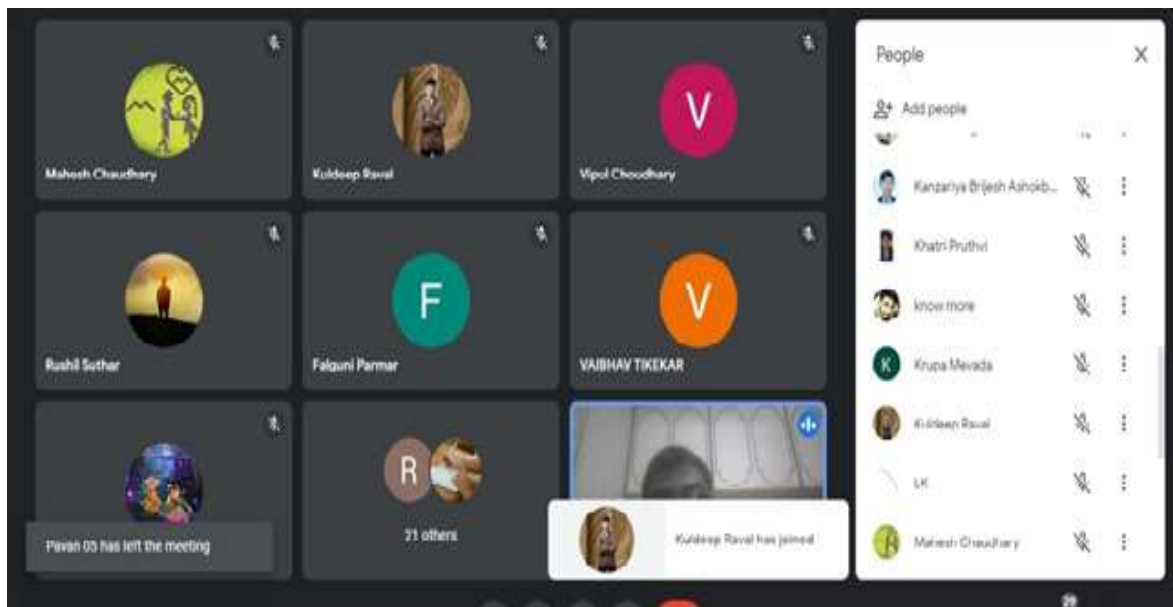
### 3. Rashtragaan

On the occasion of Azadi ka Amrut Mahotsav Government launched a portal on which Indian citizen can participate for the Rashtragaan on 07 August 2021. Students of the Institute and Faculties are participated in the Rashtragaan. Students and Faculties are singing Rashtragaan and upload the video and they are awarded as a participant of Rashtragaan.



#### 4. Skills, Entrepreneurship Development and Employability: Challenges & Opportunities'

On the first anniversary of National Education Policy (NEP) 2020, mapping a vital shift in India's education system, a webinar on the theme 'Skills, Entrepreneurship Development and Employability: Challenges & Opportunities' was organized on 10<sup>th</sup> August 2021 at 11.30 to 12.30 pm by Government Engineering College, Palanpur and a talk delivered by Prof. R K Rathod, Assistant Professor from Civil engineering Department.



## 5. Plantation

Government Engineering College, Palanpur in Collaboration with Forest Department , Banaskantha celebrated Plantation program at Hostel campus and College Campus. More than 500 Plants are planting in this event and this program was inaugurated on 14th August 2021 at Hostel campus in the presence of Vasantbhai Ahir, Minister of Gujarat State Child Protection, Shri Dineshbhai Anavadiya , Member of Parliament Shri Parbatbhai Patel , MP and Shri Haribhai Chaudhary Ex. Central Minister of Home, Shri Anand Patel, Collector Banaskantha, Shri Abhaysinh , DFO Banaskantha and all the staff members of Forest Dept. Banaskantha and GEC , Palanpur family members are present in this program .



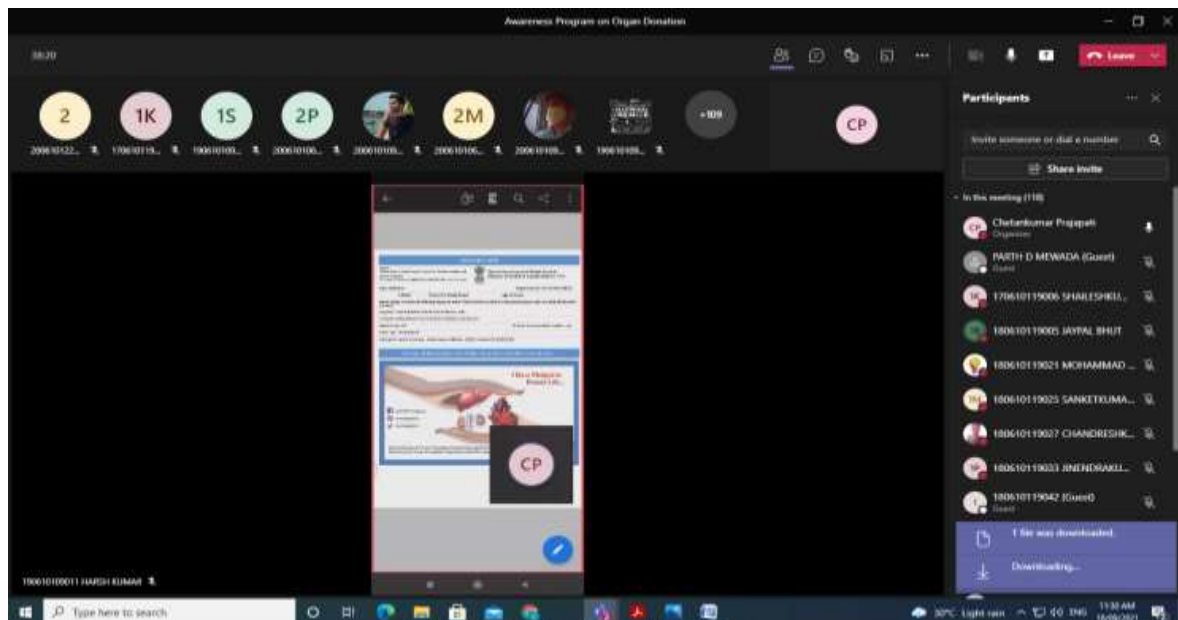
## 6. Azadi ka Amrut Mahotsav Sankalp Day

Government Engineering College Palanpur celebrated Sankalp Day on 06<sup>th</sup> September 2021 in the context of “Azadi ka Amrut Mahotsav”. Staff members and students of the Institute joined and take the Sankalp on this Day.



## 7. Awareness on Organ Donation

Government Engineering College Palanpur NSS Unit arranged a webinar on “Awareness on Organ Donation” on 18<sup>th</sup> September 2021 at 11.00 pm. Students of the Institute and faculties actively participated and benefited in this webinar.



## 8. Electoral Awareness Program

Government Engineering College, palanpur NSS Unit and Mamlatdar office , Vadgam jointly organized a seminar on “ Electoral Awareness (SVEEP) on 01/10/2021 at Institute Students and the faculties are actively participated in the program and also involved in the Electoral oath at the end of the program.



## 9. Sevayagn for Books Exhibition

Ratnanidhi Charitable Trust & Rotary Club ,Palanpur jointly organize Books Exhibition at Ratnanidhi Charitable Trust Library at Jagana. This Exhibition will be organize on 06<sup>th</sup> October 2021. National Service scheme volunteers served to arrange more than 15000 different types of books at the Library. Books were segregated and arranged on the different tables by NSS Volunteers. NSS Volunteers served for three days continuously from 10.00am to 5.00pm.



## 10. Safai Abhiyan Under Azadi Ka Amrut Mahotsav

Government Engineering College Palanpur NSS Unit Organized Safai Abhiyan under Azadi ka Amrut Mahotsav on 11<sup>th</sup> October 2021 at jagana village and in college campus. More than 70 students participated in this Event.





## 11. Fire Safety Awareness Program

Government Engineering College Palanpur NSS Unit Organized Fire safety awareness program on 13<sup>th</sup> October 2021 with the Collaboration of Venture Fire Services, Mahesana. Shri Jitendrabhai who was working with Venture fire safety joins with this program. He Was aware the students and also performed the live demonstrated of the fire Extinguisher.



## 12. Rashtriya Ekta Divas

Government Engineering College Palanpur NSS Unit organized the celebration of Rashtriya Ekta Divas on 30<sup>th</sup> October 2021. On every 31<sup>st</sup> October our country celebrates Birth anniversary of Sardar Vallabhbhai Patel. All the faculties, staff and students participated in oath.



### 13. Industrial Safety awareness

Government Engineering College Palanpur NSS Unit and Ihsedu Oil Industries PVT. LTD. Jagana jointly Organized Industrial safety awareness program on 8<sup>th</sup> March 2022. Expert discussed about the different important points related to industrial safety.



## **STUDENT ACTIVITIES**

## STUDENT ACTIVITIES

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### A. Teachers' Day Celebration

As per our tradition our nation celebrate our First vice president and Second President of India, Dr. Sarvapalli Radhakrishnan's birthday as a "Teachers' day". Government Engineering College Palanpur also celebrated Teachers' Day on 06th September 2021.

Institute Student Council organized the event as per the Indicative guideline given by Directorate of Technical Education , Gandhinagar. Students performed various activities like Role of Teacher, Book Review of "To sir with Love" By ER Braithwalle – London School- 1950, Video Clip on Biography of Dr. Sarvapalli Radhakrishnan, Elocution on Teachers etc.

At the end of the session Dr. K B Judal , Principal of the Institute motivated the students and all faculties on this special occasion. Dr. K M Korot , Gymkhana President concluded the event with vote of thanks.





## B. Navratri Mahotsav

As per the Indian tradition, Navratri celebration was organized on 6<sup>th</sup> October, 2021, Wednesday at Government Engineering College, Palanpur campus.

The event was well attended by the all the enthusiastic students, faculties and staff members in traditional grooming. All the participants cherished the performance of Orchestra with a vibrant dancing style of “Garba and Dandiya Raas”. The celebration was started by dinner at College campus and then after offering prayer to Goddess Maa Ambe. Finally, Students and faculties performed “GARBA and DANDIYA RASS.”

**The Winner of Navratri celebrations are...**

**In Boys...**

1. Datt Patel (5th Sem, Civil Engg.)
2. Ronak Patel (7th Sem, Civil Engg.)

**In Girls....**

1. Jua Rinku (5th Sem, Civil Engg.)
2. Katara Payal (5th Sem, Civil Engg.)

Total 380 students and 55 volunteers have participated to make the event successful.







## C. PRAXES



### **State Level Technical and Cultural Event**

**11<sup>th</sup> to 12th APRIL 2022**

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#### **Faculty Coordinators:**

**Dr.K.M.KOROT**

**Dr. N.A.PATEL**

**Prof. D.A.Patel**

#### **Student Coordinators:**

**PRINCE PANCHAL**

**DAKSH PATEL**

**SMIT PATEL**

## Posters of Event

**GOVERNMENT ENGINEERING COLLEGE PALANPUR**

**PRAXES 2K22**

**QUIZ - O - TECH**

**PROJECT EXHIBITION**  
MECHANICAL  
ELECTRICAL  
MINING  
CIVIL

**CONSTRUCTO CIVIL**

**POSTER PRESENTATION**  
MECHANICAL  
ELECTRICAL  
MINING  
CIVIL

**ROBOTIX TERMINATOR TRACK TYCOON**

**RANGOLI COMPETITION**

**BEST OUT OF WASTE**

**TREASURE HUNT**

**LAN GAMES**

**DATE : 11<sup>TH</sup> TO 12<sup>TH</sup> APRIL**  
**LAST DATE OF REGISTRATION : 4<sup>TH</sup> APRIL**

**FACULTY COORDINATORS**  
Dr. K. M. KOROT  
Dr. N. A. PATEL  
Prof. D. A. PATEL

**PATRON**  
Dr. K. B. JUDAL

**STUDENT COORDINATORS**  
PRINCE PANCHAL +918732990014  
DAKSH PATEL +919737889132  
SMIT PATEL +9197227307575

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**GOVERNMENT ENGINEERING COLLEGE PALANPUR**

**PRAXES 2K22**

**ROBOTIX TERMINATOR TRACK TYCOON**

**ROBOTIX COORDINATORS**  
RAVI CHAUHAN +918320707170  
BRIJESH RAJPUT +919173030662  
ABID HUSEN +918141667419

**PRAXES COORDINATORS**  
DR. K. M. KOROT  
DR. N. A. PATEL  
PROF. D. A. PATEL

**FACULTY COORDINATORS**  
PROF. A. R. CHAUDHARY  
PROF. A. K. PATEL

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## Events List

ROBOTICS	Prof. A. R. Chaudhary Prof. A.K.Patel	Ravi Chauhan	6 <sup>th</sup> Mech	8320707770
		Brijesh Rajaput	6 <sup>th</sup> Mech	9773030662
		Abid Husen	6 <sup>th</sup> Ele	8141667419
PROJECT EXIBITION	Prof. R.H.Chaudhary Prof.S.L.Modi	Kuldip Raval	6 <sup>th</sup> Mech	88490276430
		Abishek Prajapati	6 <sup>th</sup> Civil	9998591020
		Anil Pargi	6 <sup>th</sup> Ele	8460845365
RANGOLI COMPITATION	Dr.F.J.Narsangini Prof.V.H.Khokhani	Haitali Patel	6 <sup>th</sup> Civil	
		Preksha Prajapati	6 <sup>th</sup> Civil	
		Bhavna Patel	3 <sup>rd</sup> Ele	
Quiz-O-Tech	Prof. M. G. Prajapti Prof.S.K.Dabhi	Brijal Chaudhary	6 <sup>th</sup> Civil	
		Rajesh Prajapati	6 <sup>th</sup> Mech	7043910084
		Harshal Bavaliya	6 <sup>th</sup> Ele	7819910099
CONSTRUCTO	Prof. Y.J.CHAUHAN Prof.N.R.Kotiya	Shital Makwana	6 <sup>th</sup> Civil	7041900127
		Saurav Prajapati	6 <sup>th</sup> Civil	9586031812
		Abhishek Prajapati	6 <sup>th</sup> Civil	9998591020
LAN GAME	Prof. J.H.Patel Prof.K.G.Prajapati	Ronak Patel	6 <sup>th</sup> Mech	9712623151
		Chirag Kanjariya	6 <sup>th</sup> Ele	7777950678
		Hiten Makwana	6 <sup>th</sup> Civil	8200947516
TRESURE HUNT	Prof. H.N.Chaudhary Prof.V.D.Patel	Hemangini Makwana	6 <sup>th</sup> Civil	
		Meen Patel	6 <sup>th</sup> Civil	7229077606

		<i>Rushil Suthar</i>	<i>6<sup>th</sup> Ele</i>	<i>6352242540</i>
POSTER PRESENTATION	<i>Dr.A.M.Patel</i>	<i>Krish Bhatt</i>	<i>3<sup>rd</sup> Mech</i>	<i>9510198661</i>
	<i>Prof.P.N.BOKA</i>	<i>Gaurang Gurajar</i>	<i>6<sup>th</sup> Civil</i>	<i>9998275711</i>
		<i>Arti Panchal</i>	<i>3<sup>rd</sup> Ele</i>	
BEST OUT OF WEST	<i>Prof.R.H.Chaudhary</i>	<i>Anil Bharti</i>	<i>6<sup>th</sup> Civil</i>	<i>8758422705</i>
	<i>Smt.K.P.Shah</i>	<i>Cahuhan Smit</i>	<i>6<sup>th</sup> Mech</i>	<i>94294400320</i>
		<i>Katara Payal</i>	<i>6<sup>th</sup> Civil</i>	
		<i>Chavada Sunil</i>	<i>6<sup>th</sup> Ele</i>	<i>8128559241</i>
		<i>Mitul Mevada</i>	<i>6<sup>th</sup> Mech</i>	<i>9106597761</i>

## Central Committees

NAME OF COMMITTEE	FACULTY CO-ORD	STUDENT CO-ORD.	DEPT.	CONTACT
ORGANIZING COMMITTEE	Dr. K. M. Korot	Prince Panchal	6 <sup>th</sup> Mech	8732990014
	Dr. N A. PATEL	Dakshkumar Patel	6 <sup>th</sup> Civil	9737889132
	Prof. D. A. PATEL	Smit Patel	6 <sup>th</sup> Ele.	9727307575
REGISTRATION & CERTIFICATION	Prof. R. K. RATHOD Mr. M. J. Trivedi	Tahirkhan Bihari	6 <sup>th</sup> Civil	8780269544
		Mitansu Patel	6 <sup>th</sup> Mech	7485908319
		Sanket Singh	6 <sup>th</sup> Ele.	7016901007
STAGE DECORATION	Dr. C. G. Prajapati Prof. S. G. Chauham Mr. G. M. Patel Smt. K. P. SHAH Smt. M. B. CHAUDHARI	Yash Parmar	6 <sup>th</sup> Civil	9664936659
		Bhavin Prajapati	6 <sup>th</sup> Mech	9106420021
		Rohan Gupta	6 <sup>th</sup> Ele.	8160923426
HOSTING	Prof. A. D. PATEL Prof. S. G. Chauham	Priyansh Panchal	6 <sup>th</sup> Mech	87329900010
		Nazeelkhan Sindhi	6 <sup>th</sup> Civil	9081008301
		Preena Sharma	6 <sup>th</sup> Ele.	8200670113
		Ami Jishanali	3 <sup>rd</sup> Civil	7436076111
CATERING	Prof. H. U. Patel Prof. M. N. Prajapati Shree G. K. Chaudhari Mr. T. J. Rathi	Avanish Patel	6 <sup>th</sup> Civil	
		Hiren Prajapati	6 <sup>th</sup> Ele.	8320693531
		Jatin Desai	6 <sup>th</sup> Mech	9510885486
DECIPLINE,	Dr. A. M. Patel	Akshay Chaudhary	6 <sup>th</sup> Civil	7069861898

## Student activities

SECURITY AND WOMEN CARE	Prof. H. N. Chaudhary Dr. F. J. Narsangini Prof. V. H. Khokhani	Hitesh Chaudhary	6 <sup>th</sup> Civil	9428564198
		Rinku Jua	6 <sup>th</sup> Civil	
		Apurv Mewada	6 <sup>th</sup> Mech	9328295628
SPONSORSHIP	Prof. P. N. Boka Prof. M. K. Patel Prof. H. V. Hirvaniya Prof. J. V. Modi	Milan Khatri	6 <sup>th</sup> Civil	9429286501
		Dharuv Panchal	6 <sup>th</sup> Civil	9376236688
		Darshan Limbachiya	6 <sup>th</sup> Mech	9316355562
PRESS AND CAMAPINING	Prof. G. M. SAVALIYA Prof. Y. J. CHAUHAN	Jeel Patel	6 <sup>th</sup> Civil	8780893484
		Het Patel	6 <sup>th</sup> Civil	9081368784
		Keval Tank	6 <sup>th</sup> Ele.	7046184440
		Kunjan Prajapati	6 <sup>th</sup> Ele.	8758581378
		Dave Chirag	6 <sup>th</sup> Mech	9157021602
		Ajay Rathod	6 <sup>th</sup> Mech	9316696140
ACCOUNT	Dr. C. G. PRAJAPATI Shree J. G. PRAJAPTI	Jigar Mewada	6 <sup>th</sup> Civil	9512652862
		Mihir Panchal	6 <sup>th</sup> Mech	9408332921
PURCHASE	Prof. A. R. Chaudhary Shri. G. M. Patel Mr. T. J. Rathi	Harsh Chaudhary	6 <sup>th</sup> Mech	6355275705
		Datt Patel	6 <sup>th</sup> Civil	9099211394

## Event Banners















## Event Participation

**TOTAL NUMBER OF STUDENTS PARTICIPATED: 845**

**TOTAL NUMBER OF COLLEGES PARTICIPATED:**

### Event Wise Participation

<b>Robotics Students</b>	<b>:</b>	<b>110</b>
<b>Constructo Students</b>	<b>:</b>	<b>36</b>
<b>Poster Presentation Students</b>	<b>:</b>	<b>115</b>
<b>Project Exhibition Students</b>	<b>:</b>	<b>33</b>
<b>Quiz Students</b>	<b>:</b>	<b>179</b>
<b>Best Out Of Waste Students</b>	<b>:</b>	<b>23</b>
<b>Treasure Hunt Students</b>	<b>:</b>	<b>195</b>
<b>Lan Game Students</b>	<b>:</b>	<b>195</b>
<b>Rangoli Competition Students</b>	<b>:</b>	<b>47</b>

## Event Gallery





## Cultural Night Gallery









## D. Sport Week

Sports committee of GEC Palanpur organized "Sports week 2k22" in the college for the students of GEC Palanpur. Participants from every semester and department were invited to take part voluntarily in various sport activities. Various sports such as cricket, volleyball, kho-kho, kabaddi, and many more were organized. There were also on the spot games organized by the committee. The core committee selected the class and game coordinators from each semester of all branches. The registration process for both team and individual commenced from 14<sup>th</sup> March and the deadline for registration was 21<sup>th</sup> March. The class coordinators were given the job of offline registration. The registration of team games were offline. The job of the class coordinators were to register their class teams in various sports and report that to the core committee. After the registration process, the details of registered teams and players were given to the game coordinators of the respective game. They prepared the schedule and the fixtures for the event and reported that to the core committee. The program was kick-started with inauguration ceremony on 28<sup>th</sup> March. The program was successfully concluded with prize distribution ceremony on 08<sup>th</sup> April.

The details of each games are illustrated ahead:

## ~ TEAM SPORTS ~

### CRICKET :

Eleven teams participated in the game matches on 28<sup>th</sup> March 2022. The quarters and semifinal were played on 5<sup>th</sup> April. The two teams to qualify for the Finals CIVIL VI and Mechanical VI. The final was played on 9<sup>th</sup> April's, 2022. CIVIL VI was able to cross the winning line . And Zigar Mewada was awarded with the Man of the series trophy for his excellent raiding.



### Tournament tree:-

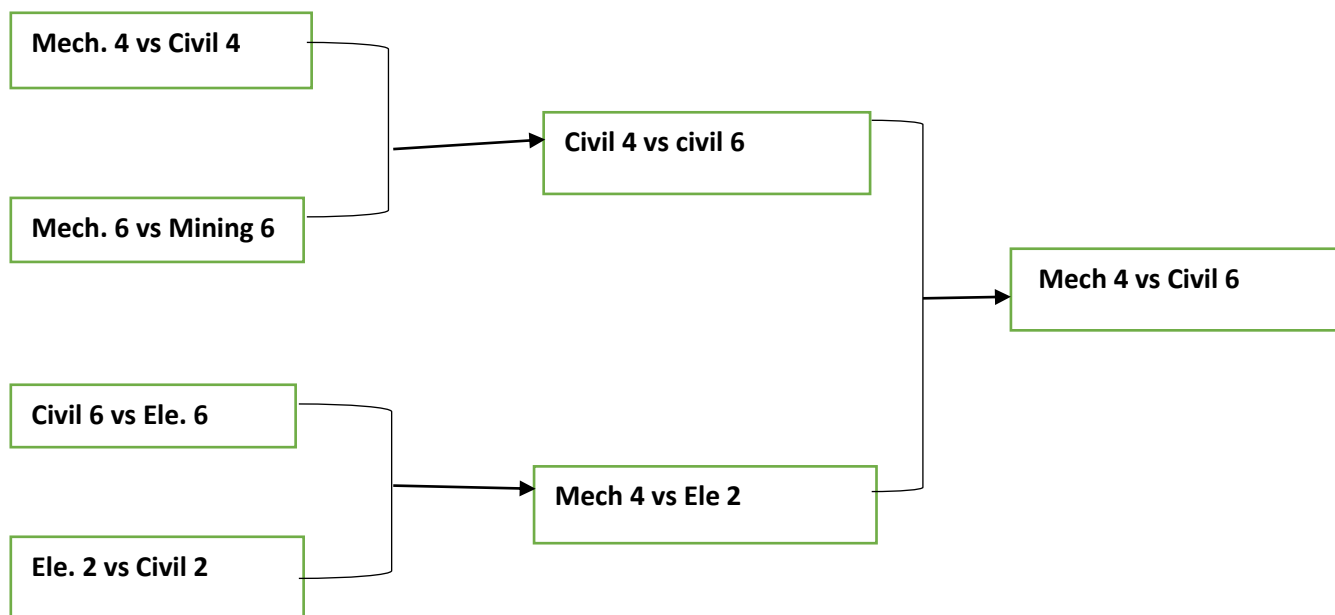
**KABADDI :**

A total of eight teams participated in the game. The game was scheduled between 28<sup>th</sup> March to 9<sup>th</sup> April. for Ten participating team. Out of Ten , five teams qualified for Quarters and then the top four teams qualified for semifinals were played on 8<sup>th</sup> April and the finals were scheduled on 9<sup>th</sup> April. Civil 6<sup>th</sup> and Mechanical 4 were able to qualify for the finals. MECHANICAL 4<sup>TH</sup> were finally the champion and Arvind Yadav was awarded with the Man of the series trophy for his excellent raiding.



**Tournament tree:-**

**Tournament tree:-**

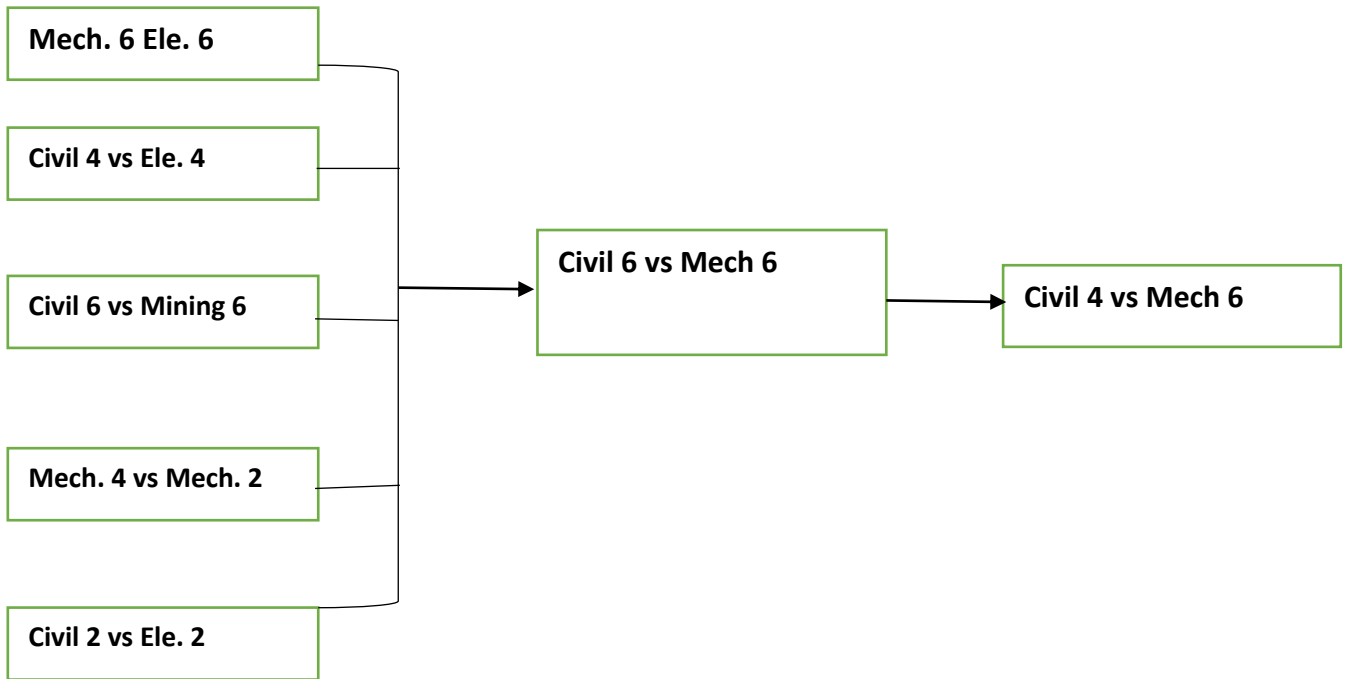


## VOLLEYBALL

In Volleyball the league matches were scheduled from 28<sup>th</sup> march to 9<sup>th</sup> April, 2022 for Ten participating team. Out of Ten , five teams qualified for Quarters and then the top four teams qualified for the semi-final. The finalists among the Ten were MECHANICAL 6<sup>th</sup> and civil 4<sup>th</sup> and at last MECHANICAL 6<sup>th</sup> were able to defeat and become champion And MITANSHU PATEL was awarded with the Man of the series trophy for his excellent raiding.



### Tournament tree:-



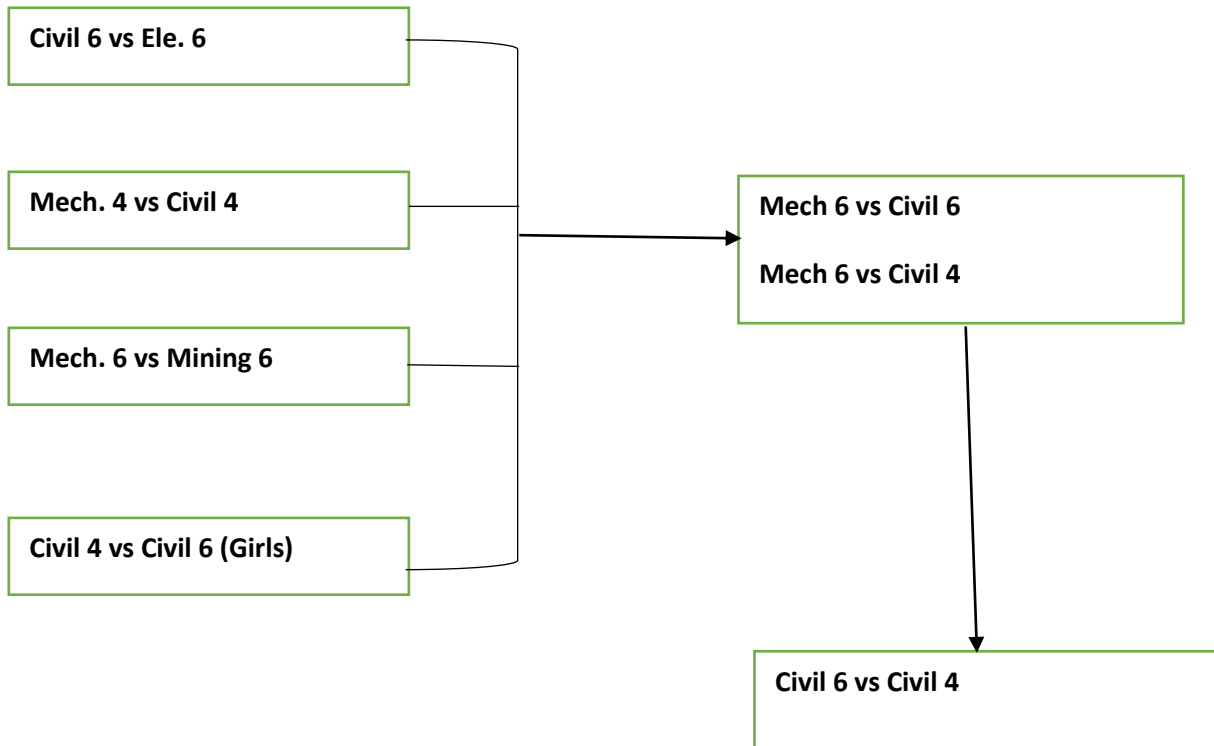


## **KHO-KHO :**

In Kho-Kho the league matches were scheduled from 28<sup>th</sup> march to 9<sup>th</sup> April, 2022 for eight participating team. Out of eight, four teams qualified for Quarters and then the top four teams qualified for the semis. The finalists among the EIGHT were CIVIL 6<sup>th</sup> and civil 4<sup>th</sup> and at last civil 6<sup>th</sup> were able to defeat and become champion. And Jitendra Purohit was awarded with the Man of the series trophy for his excellent raiding.



### Tournament tree:-

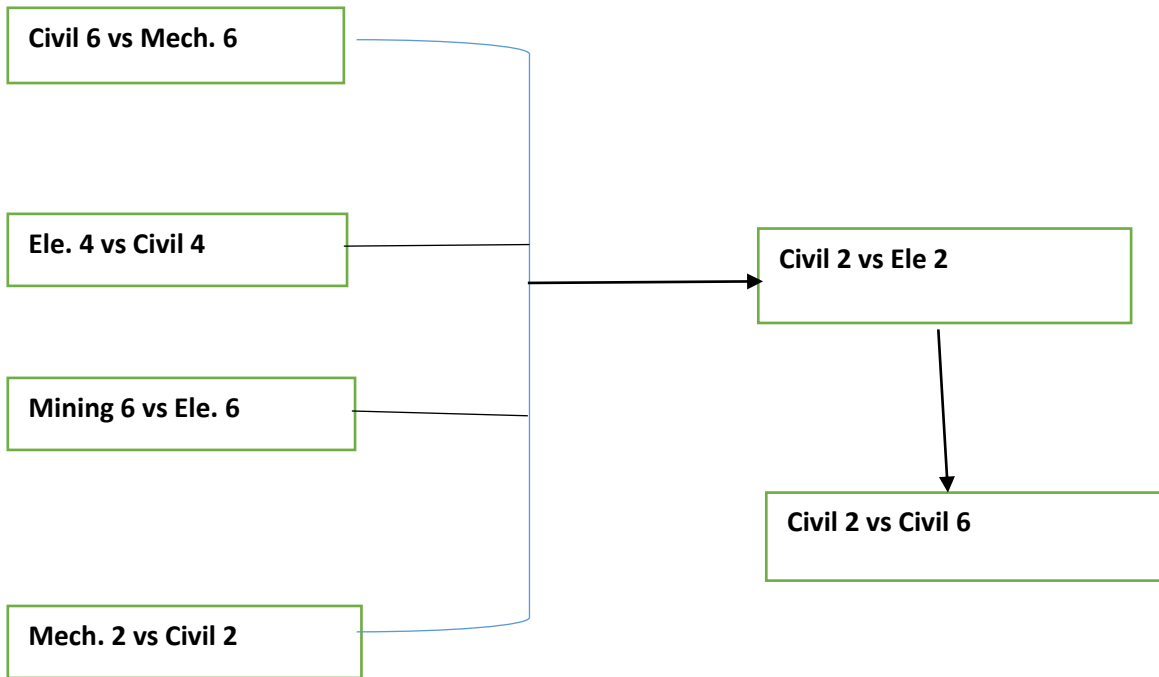


## **TUG OF WAR:**

There were total of 9 participating teams in the game. The round 1 was held on 28<sup>th</sup> March, 2022. Among the 5 winners of Round 1, top 4 were selected for Round 2 i.e. semifinal round which was scheduled on 8<sup>th</sup> April, 2022. civil 6<sup>th</sup> and civil 2<sup>nd</sup> were qualified for the Final and civil 6<sup>th</sup> were able to become the ultimate champion.



### Tournament tree:-



## TABLE TENNIS :

In T.T doubles Thirty five teams were registered in this game. Initially the game was played within the semester, and the winners represented their class for next round. The next round was played within the class winners of the particular department, and the winners of this round represented their Branch for the next round. Next round was played among the 4 representative of their respective branch. Ayaz khureshi - Smit Patel (T<sub>1</sub>) and Stivan Patel and Bhargav Patel(T<sub>2</sub>) qualified for the final. Ayaz khureshi - Smit Patel were able to defeat their opponent and won the final of TTdoubles.



## INDIVIDUAL SPORTS:

There were four individual sports, TT singles, Chess, Carrom, Carrom doubles. The student registered their name through offline form and there were around 300+ participants in the individual sports. Round 1 was played between the participants of the same class, and so one representative was selected from each class of the respective branch. The round 2 was played between class representative within the branch. And from round 2 we got the departmental representative from it. So total of 4 players were shortlisted, one from each branch in all the individual games. Then the semifinals were played among the departmental representative and then the winners were succeeded to the final, which were played on 9<sup>th</sup> of March.

The Winners and the runners up of various games are as follows:

<b>Sports</b>	<b>Winner</b>	<b>Runners Up</b>
<b>Carrom doubles</b>	<b>Dev Gajjar Ritik Vishwakarma</b>	<b>Rohan Gupta Kishan Suthar</b>
<b>Carrom</b>	<b>Makwana Hiten</b>	<b>Bhemsatar Jisan</b>

Chess	Dhruv Prajapati	Naman Bhojak
TT singles	Darshan Dabhi	Sanny patel
<u>Badminton</u>	<u>Vishva Patel</u>	<u>Haitali Patel</u>







## PRIZE DISTRIBUTION CEREMONY:

SPORTS WEEK IS ORGANISED UNDER PRAXES-2K22. In the Initial Session of Cultural Night Sports Committee Organised PRIZE DISTRIBUTION CEREMONY for all Winners of Sports Events. Committee Invited Chief Guest As Shaileshbhai Joshi(Balaji Developers) and Dr. Surendra Gupta



## **Documentary Film**

A short DOCUMENTARY FILM on college was prepared and directed by following group of Students and Faculties.

### **Students Team:**

Raj Patel  
Meet Patel  
Parth Patel  
Priyank Jani  
Chitra Joshi  
Tanvi Patel  
Reena  
Ruchita  
Hardik

### **Faculty Guide:**

Dr. K. B. Judal  
Dr. J. A. Vadher  
Prof. N. A. Patel

Duration of documentary film: 6:04 min



## **ADMINISTRATIVE/ACADEMIC STAFF DEVELOPMENT**

## ADMINISTRATIVE/ACADEMIC STAFF DEVELOPMENT

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### CIVIL ENGINEERING DEPARTMENT

#### VISION

To create competent civil engineering professionals for sustainable growth of the society.

#### MISSION

1. To impart quality education by cultivating and mentoring students to excel in the civil engineering profession.
2. To enhance exposure to Civil Engineering Industries through site visits, trainings and consultancy.
3. To promote life-long learning, innovations and entrepreneurship for the sustainable development of society

#### PROGRAM EDUCATIONAL OBJECTIVES

1. To prepare students with strong foundation in mathematical, scientific and engineering fundamentals that will enable them to have successful carrier in core civil and interdisciplinary industries and entrepreneurship.
2. Civil engineering graduates will be able to apply leadership qualities with strong soft skills along with professional and ethical values.
3. Graduates will be lifelong learners and innovators for betterment of society.

## A. Faculty/staff department wise &amp; STR, Cadre ratio

Sr. No.	Name	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)
1	P. C. VASANI	M.E. (CASAD)	Structural Engineering	Professor	02-06-2018	-	Regular
2	V. R. SHARMA	M.Tech. (STRUCTURES)	Structural Engineering	Assistant Professor	10-05-2011	-	Regular
3	Dr. G. M. SAVALIYA	M.Tech. (CASAD) PHD	Structural Engineering	Assistant Professor	16-01-2016	-	Regular
4	H. U. PATEL	M.E. TRANSPORTATION ENGINEERING	Transportation Engineering	Assistant Professor	01-07-2017	-	Regular

Student activities

5	V. H. KHOKHANI	M.E. (WRM)	Water resource Engineering and Management	Assistant Professor	21-11-2020	-	Regular
6	S. G. CHAUHAN	M.Tech. (URBAN PLANNING)	Building and Town Planning	Assistant Professor	01-07-2017	-	Regular
7	Y. J. CHAUHAN	M.E. (CASAD)	Structural Engineering	Assistant Professor	11-07-2018	-	Regular
8	N. R. KOTIYA	M.E. (GEOTECH)	Geotechnical Engineering	Assistant Professor	11-07-2018	-	Regular
9	U. R. Patel	M.E. Structure	Structural Engineering	Assistant Professor	30-07-2008	-	Ad hoc
10	R. K. RATHOD	M.E. (WRM)	Water Resource Management	Assistant Professor	21-10-2014	-	Contract
11	M. N. PRAJAPATI	M.E. (STRUCTURES)	Structural Engineering	Assistant Professor	28-10-2016	-	Contract

**No of the Available Faculty:**

S. No.	Designation/Numbers	Number of Faculty in the Department for UG	
		CAY (2021-22)	CAYm1 (2020-21)
1.	Professor	1	1
2.	Associate Professor	0	0
3.	Assistant Professor	8	9
4.	Number of Ph.D	1	2

**Detail of Head of the Department for the program:**

Name: Prof. Pankaj C. Vasani

Qualification: - M.E (CASAD)

**Student Faculty Ratio :-**

No. of UG Programs in the Department (n): 1

No. of Students in UG 2nd Year = u1

No. of Students in UG 3rd Year = u2

No. of Students in UG 4th Year = u3

No. of Students = Sanctioned Intake + Actual admitted lateral entry student

S = Number of Students in the Department = u1 + u2 + u3

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Year	2021- 2022



u1	77
u2	78
u3	62
Total No. of Students in the Department (S)	<b>217</b>
No. of Faculty in the Department (F)	<b>08</b>
Student Faculty Ratio (SFR)	<b>SFR1=27.12</b>

### Faculty Cadre Proportion:

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required =  $1/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F2: Number of Associate Professors required =  $2/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F3: Number of Assistant Professors required =  $6/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

Year	Professors		Associate Professors		Assistant Professors	
	Required	Available	Required	Available	Required	Available
<b>2021-2022</b>	1	1	3	0	8	8

B. Program specific faculty competencies : “Brief overview of faculty with potential skill and competencies, Specialization & Major area of work”.

Name of Department: Civil Engineering/Applied Mechanics

### Faculty Contribution

Name of the Faculty	Designation	Qualifications, University & year of Passing			Area of Specialization	Date of joining	No. of Research publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					

## Student activities

P. C. VASANI	Professor	B.E., Civil Engineering,  L. D. College of Engg., Ahmed abad - 1983	M.E. CASA D,  L. D. College of Engg.. Ahmed abad - 2001	NIL	Structural Engineering	02- 06- 2018	NIL	NIL	NIL
V. R. SHARMA	Asst. Prof.	B.E. Civil (MBM Engineering College , Jodhpur <td>M.Tech. Structural Engineering (Malaviya National Institute of Technology, Jaipur), 2009</br></td> <td>Ph. D in Civil Engineering (MNI T, Jaipur<br ),<="" td=""/> <td>Structural Engineering, Earthquake Engineering</td> <td>10- 05- 2011</td> <td>08</td> <td>NIL</td> <td>NIL</td> </td>	M.Tech. Structural Engineering (Malaviya National 	Ph. D in Civil Engineering (MNI T, Jaipur <td>Structural Engineering, Earthquake Engineering</td> <td>10- 05- 2011</td> <td>08</td> <td>NIL</td> <td>NIL</td>	Structural Engineering, Earthquake Engineering	10- 05- 2011	08	NIL	NIL

Dr. G. M. SAVALI YA	Asst. Prof.	B.E. Civil (S.S.E. C, Bhavna gar) - 2006	M.Tec h. CASA D (Nirma Univer sity) - 2009	PhD. Civil (SVNI T) - 2016	Structura l Engineer ing	18- 05- 2011	17	NIL	NIL
H. U. PATEL	Asst. Prof.	B.E. Civil  (DDU Nadiad) , 2011	M.E. Civil (GTU), 2013	NIL	Transpor tation Engineer ing	01/07/ 2017	NIL	NIL	NIL
V H KHOKH ANI	Asst. Prof.	BE GU 2009	ME GTU 2012	NIL	Water Resource Manage ment	21/11/ 2020	05	NIL	NIL

Student activities

S. G. CHAUHAN	Asst. Prof.	B.E. Civil (Gujarat University), 2010	M.Tech Urban Planning (SVNI T) - 2013	NIL	Urban Planning	01/07/ 2017	NIL	NIL	NIL
Y. J. CHAUHAN	Asst. Prof.	B.E., Civil Engineering, L. D. College of Engg., Ahmed abad - 2011	M.E. CASA D, L. D. College of Engg., Ahmed abad - 2014	NIL	Structural Engineering	11- 07-18	NIL	NIL	NIL

Student activities

N. R. KOTIYA	Asst. Prof.	B.E. Civil (DDUN adiad), 2010	M.E. Geotec h, L. D. College of Engg.. Ahmed abad - 2013	NIL	Geotech nical Engineer ing	11- 07-18	NIL	NIL	NIL
U. R. PATEL	Asst. Prof.	B.E. Civil (L E College Morbi), 2003	M.E. Structu ral Engine ering (Darsh an Institut e of Engine ering & Techno logy), 2021	nil	Structura l Engineer ing, E	30- 07- 2008	01	NIL	NIL

## Student activities

R. K. RATHOD	Asst. Prof.	B.E., Civil Enginee ring,  L. D. College of Engg., Ahmed abad - 2006	M.E. WRM,  L. D. College of Engg., Ahmed abad - 2010	NIL	Water Resource Manage ment	21- 10- 2014	NIL	NIL	NIL
M. N. PRAJAP ATI	Asst. Prof.	B. E. Civil Enginee ring  Gujarat Technol ogical Univers ity,  Ahmed abad, 2014	M. E. Structu ral Engine ering  Gujarat Techno logical Univer sity,  Ahmed abad, 2016	NIL	Structura l Engineer ing	28- 10- 2016	NIL	NIL	NIL

### C. Faculty/staff training/seminar/conferences

Faculty name	Title of the training	Specify other	From	To
Dr. G. M. Savaliya	Optimization Methods for Civil Engineering	NPTEL MOOC IIT-Guwahati	26-07-2021	15-10-2021
	Designing New Laboratory Experiments in Civil Engineering	NITTTR, Bhopal	26-07-2021	30-07-2021
	Problem Solving through Programming in C	NPTEL MOOC IIT-MADRAS	24-01-2022	15-04-2022
	Design and Construction of Steel Structure	VKIT, Bengaluru (INSDAG and CIDA)	06/06/2022	10/06/2022
Prof. H.U.Patel	Urban Transportation Systems Planning	NPTEL-Mooc	January 2022	April 2022
Prof. V. H. Khokhani	Geographic Information Systems	NPTEL-Mooc	24/01/2022	15/04/2022
	Green Buildings Construction Technology	NITTTR Bhopal	25/04/2022	29/04/2022
Prof.	Accreditation for Undergraduate	NPTEL-Mooc	26/07/2021	27/09/2021



S.G.Chauhan	Engineering Programme			
	Geographic Information System	NPTEL-Mooc	24/01/2022	15/04/2022
	Technology Enabled Learning	NITTTR Bhopal	28/03/2022	01/04/2022
	Designing Innovative Laboratory Experiments in Civil	NITTTR Bhopal	13/06/2022	17/06/2022
Dr. V. R. Shrama	Optimization Methods for Civil Engineering	IIT Guwahati; NPTEL MOOC	July 21	Oct 21
Prof. Y.J.Chauhan	Advances in Earthquake Safe Design and Construction Practice	LDCE (ATAL FDP)	07/02/2022	11/02/2022
	Fire-Resistant Design of Structures	LDCE (AICTE sponsored - QIP)	25/04/2022	30/04/2022
	Design of Confined Masonry Buildings for Earthquake Disaster Risk Mitigation in India	LDCE (GIAN sponsored)	06/06/2022	10/06/2022

Prof. N.R.Koti ya	Induction Phase II	NITTTTR, Bhopal	15-11- 2021	26-11- 2021
	Rock Engineering	IIT Roorkee; NPTEL MOOC	Jan 21	Apr 21
	Urban Transportation Systems Planning	NPTEL-Mooc	January 2022	April 2022
Prof. U. R. Patel	Indian Constitution	GP, Rajkot	28/03/2022	01/04/2022

#### D. Research : Publications IJ/J/C/IC, R&D etc.

Name of faculty	CAY(2021-22)				CAYm1 (2020-21)				CAYm2 (2019-20)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
Dr. V. R. Sharma	1	-	-	-	2	-	-	-	1	-	5	-
Prof. G.M.	-	-	-	-	-	-	3	-	-	-	-	-

Savaliya												
Prof.Y J Chauhan	1	-	-	-	-	-	-	-	-	-	-	-
Sum	2	-	-	-	2	-	3	-	1	-	5	-
<b>A.Y. Sum</b>	2				5				6			

### Summary

Academic Year	No. of papers in National conference	No. of papers in International Conferences	No. of papers in National Journal	No. of papers in International Journals	Total no. of Publications
2021-22	-	-	-	2	2
2020-21	-	3	-	2	5
2019-20	-	5	-	1	6
<b>total</b>	-	8	-	5	13
<b>Patents filed</b>	-	-	-	-	-

### E. Invited talks/lectures delivered

Sr. No.	Date / Year	Names of resource persons	Background industry / academic / R & D	Topics covered	No. of Beneficiaries
<b>Invited Faculty</b>					
-	-	-	-	-	-
<b>Internal Faculty</b>					
-	-	-	-	-	-

## F. Research projects/COE/Labs/Training seminar organized

### Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2021-2022	0	1	0	0
2020-2021	0	0	0	0
2019-2020	0	1	0	1
2018-2019	0	0	0	0

## G. Faculty Quality Upgradation

### Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I	Year II	Year III	Year IV
	(2020 – 2021)	(2019 – 2020)	(2018 – 2019)	(2017 – 2018)
QIP/Study leave	0	1	1	1
Seminars/workshops/Summer schools / winter schools	-	-	-	-
Training/Conferences	-	-	-	-

## H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
1	Applied Mechanics	Prof. P. C. Vasani	Professor	Transfer to GEC Rajkot
2	Applied Mechanics	Prof. V. R.	Assistant Professor	Transfer to GEC

Student activities

		Sharma		Rajkot
3	Applied Mechanics	Prof U.R.Patel	Assistant Professor	Transfer from GEC Rajkot
4	Applied Mechanics	Prof U.R.Patel	Assistant Professor	Deputation to LEC College,Morbi

## **ELECTRICAL ENGINEERING DEPARTMENT**

### **VISION**

“To develop competent electrical professionals for providing sustainable engineering solutions to society”

### **MISSION**

1. To impart quality technical education with professional skills and human values.
2. To provide an eco-system that inculcates technical competencies for sustainable development.
3. To mentor students in pursuit of professional carrier and entrepreneurship.

### **PROGRAM EDUCATIONAL OBJECTIVES**

Graduates should be able:

1. To apply the principles and knowledge of electrical engineering for providing sustainable solutions to various service sectors.
2. To flourish their professional carrier individually as well as in a team.
3. To apply professional skills to be a successful entrepreneur.

## A. Faculty/staff department wise & STR , Cadre ratio

Information of Faculty:

S. No.	Name	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)
1	BHAVESH R PATEL	M.E. Electrical	Electrical Power System	Assistant Professor	23-09-2016	-	Regular
2	ALPESH M PATEL	Ph.D Electrical	Power System & Renewable Energy	Assistant Professor	21-12-2013	-	Regular
3	HARSH N CHAUDHARI	M.E. Electrical	Electrical Power System	Assistant Professor	01-07-2015	-	Regular
4	HITESH V HIRVANIYA	M.Tech. Electrical	System & Control	Assistant Professor	23-08-2016	-	Regular
5	KIRTI G PRAJAPATI	M.E. Electrical	Electrical Power System	Assistant Professor	16-08-2016	-	Regular
6	MANISH G PRAJAPATI	M.E. Electrical	Industrial Electronics	Assistant Professor	30-08-2016	-	Regular
7	MANISH K PATEL	M.Tech. Electrical	Electrical Power System	Assistant Professor	16-05-2018	-	Regular
8	JUGNU H PATEL	M.E. Electrical	Electrical Power System	Assistant Professor	17-05-2018	-	Regular

**No of the Available Faculty:**

S. No.	Designation/Numbers	Number of Faculty in the Department for UG	
		CAY (2021-22)	CAYm1 (2020-21)
1.	Professor	0	0
2.	Associate Professor	0	0
3.	Assistant Professor	8	10
4.	Number of Ph.D	1	0

**Detail of Head of the Department for the program:****Name:** Prof. Bhaveshkumar R. Patel**Qualification:** - M.E Electrical Engineering**Student Faculty Ratio:-**

No. of UG Programs in the Department (n): 1

No. of Students in UG 2<sup>nd</sup> Year = **u1**No. of Students in UG 3<sup>rd</sup> Year = **u2**No. of Students in UG 4<sup>th</sup> Year = **u3****No. of Students = Sanctioned Intake + Actual admitted lateral entry student****S** = Number of Students in the Department =  $u1 + u2 + u3$ **F** = Total Number of Faculty Members in the Department (excluding first year faculty)

Year	2021-2022
u1	33
u2	33
u3	66
Total No. of Students in the Department (S)	165
No. of Faculty in the Department (F) (Excluding First Year Faculty)	7
Student Faculty Ration (SFR)	SFR=23.57

Table: A



**Faculty Cadre Proportion:**

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required =  $1/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F2: Number of Associate Professors required =  $2/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F3: Number of Assistant Professors required =  $6/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

Year	Professors		Associate Professors		Assistant Professors	
	Required	Available	Required	Available	Required	Available
2022-2021	1	0	0		0	08

**B. Program specific faculty competencies: --“Brief overview of faculty with potential skill and competencies, Specialization & Major area of work”**

**Name of Department: Electrical Engineering**

**Faculty Contribution:**

Name of the Faculty	Designation (administrative position)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ prog, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. of Sub publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					

Name of the Faculty	Designation (administrative position)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ prog, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. of Sub publications	# of current R&D and consultancy projects and the amount	Award of any							
		UG	PG	Doctorate												
		Prof. H. V. Hirvaniya	Asst. Prof.	B.E (ELECTRICAL ENGINEERING), S.P.UNIVERSITY, 2008						M.TECH(ELECTRICAL ENGINEERING), I.I.T.ROORKEE, 2011	-	SYSTEM & CONTROL	23-08-2016	0	0	0
		Prof. H. N. Chaudhari	Asst. Prof.	B.Tech. Electrical (Nirma University), 2009						ME, Kadi Sarva Vishwavidhyalaya, 2018	-	Electrical Power System	19-04-11	1		
Prof. A. M. Patel	Asst. Prof.	BE. Electrical (Gujarat University); 2004	ME. Electrical (Gujarat University); 2010	Ph. D (IIT Roorkee), 2019	Power system	March 23, 2010	9	---	---							
Prof. B. R. Patel	Asst. Prof.	BE GEC Bhuj Gujarat University 1999	ME GEC Bhuj GTU 2017	-	Power System	06/04/2010	2	-	-							

Name of the Faculty	Designation (administrative position)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ prog, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. of Sub publications	# of current R&D and consultancy projects and the amount	Award of any							
		UG	PG	Doctorate												
		Prof. J. H. Patel	Asst. Prof.	Electrical Engineering, Hemchandracharya North Gujarat University, Patan.						Electrical Engineering, Gujarat Technological University, Ahmedaba	NIL	Protection, Power System Operation and	17-05-18	NIL	NIL	NIL
		Prof. M. K. Patel	Asst. Prof.	Electrical Engineering, Birla Vishwakarma Mahavidyalaya-						M.TECH, ELECTRICAL ENGINEERING I.I.T ROORKEE-2011	NIL	System & Control	16-05-18	NIL	NIL	NIL
Prof. M. G. Prajapati	Asst. Prof.	B.E, HNGU Patan	M.E, MSU Baroda		Industrial Electronics	30-08-16	0	0	Nil							
Prof. K. G. Prajapati	Asst. Prof.	B.E, HNGU Patan	GTU, Ahmedabad		Electrical Engineering	16-08-16	NIL	NIL	NIL							

## C. Faculty/staff training/seminar/conferences.

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1	Dr. A. M. Patel	Software Tools for Academicians, Researchers and Scientists	NIT Hamirpur	20/12/2021	24/12/2021	
2	Prof. H. N. Chaudhari	Accreditation for Undergraduate Engineering Programme	NITTTR Bhopal	26/07/2021	27/09/2021	
3	Prof. H. N. Chaudhari	MATLAB for Electrical and Electronics Engineers	NITTTR Bhopal	12/07/2021	16/07/2021	
4	Prof. H. V. Hirvaniya	Induction Programme Phase-II	NITTTR Bhopal	21/06/2021	02/07/2021	
5	Prof. H. V. Hirvaniya	Accreditation for Undergraduate Engineering Programme	NITTTR Bhopal	26/07/2021	27/09/2021	
6	K. G. Prajapati	Accreditation for Undergraduate Engineering Programme	NITTTR	26-07-2021	27-09-2021	
7	K. G. Prajapati	Induction Programme Phase-II	NITTTR	31-01-2022	11-02-2022	
8	K. G. Prajapati	Inculcating Universal Human Values in Technical Education	AICTE	21-02-2022	25-02-2022	
9	Prof. M. G. Prajapati	Induction Programme Phase-II	NITTTR, Bhopal	27-09-2021	08-10-2021	
10	Prof. M. G. Prajapati	Accreditation for Undergraduate Engineering Programme	NITTTR Bhopal	26/07/2021	27/09/2021	
11	Prof. M.K.Patel	Induction Programme Phase-II	NITTTR, Bhopal	26-07-2021	06-08-2021	

12	Prof. M.K.Patel	"Recent Advancement in Power system with Renewable Energy Sources"	ATAL Academy at GEC Patan	17-01-2022	21-01-2022	
13	Prof. J. H. Patel	Induction Programme Phase-II	NITTTR, Bhopal	26-07-2021	06-08-2021	
14	Prof. J. H. Patel	"Recent Advancement in Power system with Renewable Energy Sources"	ATAL Academy at GEC Patan	17-01-2022	21-01-2022	

#### D. Research: Publications IJ/J/C/IC, R&D etc.

#### By Individual Faculty Member

Name of faculty	CAYm2 (2019-20)				CAYm1 (2020-21)				CAY (2021-22)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
							1					
Sum							1					
AY Sum					01							

#### Summery

Academic Year	No. of papers in National conference	No. of papers in International Conferences	No. of papers in National Journal	No. of papers in International Journals	Total no. of Publications
CAYm2 (2019-20)					
CAYm1 (2020-21)		1			1
CAY (2021-22)					
<b>Total</b>					
<b>Patents filed</b>					

## E. Invited talks/lectures delivered

Sr. No.	Date / Year	Names of resource persons	Back ground industry/academic /R&D	Topics covered	No. of Beneficiaries
<b>Invited Faculty</b>					
1	05/07/2021	Dr. A. M. Patel	Academic	“Integrated Renewable Energy System for Remote Rural Area	200
2	23/08/2021	Prof. H N Chaudhary	Industry	Start-up check and impact on future performance - Solar PV	100
3	26/08/2021	Prof. M G Prajapati	Academic	Time Management in Students Life	60
4	13/09/2021	Dr. A. M. Patel	Academic	Assessment of Renewable Energy Resources	200
5	06/01/2022	Prof. M G Prajapati	Academic	How to Set a Goal	58
6	20/01/2022	Dr. A. M. Patel	Academic	Assessment of Renewable Energy Resources	200
<b>Internal Faculty</b>					
1	02/10/2021	Prof. M G Prajapati	Academic (For Passout Students)	How to Sustain Success in Life	32

## F. Research projects/COE/Labs/Training seminar organized

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2021-2022	-	-	-	-
2020-2021	-	-	-	-
2019-2020	-	-	-	-

## G. Faculty Quality Upgradation

### Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2021-2022)	Year II (2020-2021)	Year III (2019-2020)	Year III (2018-2019)
QIP/Study leave				
Seminars/workshops/Summer schools / winter schools				
Training/Conferences				

## H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Transfer/New
1	Electrical	-----Nil-----		

## **MECHANICAL ENGINEERING DEPARTMENT**

### **VISION**

"To produce competent mechanical engineers to fulfil needs of society for sustainable development"

### **MISSION**

- 1) To impart quality technical education in Mechanical Engineering with professional skills.
- 2) To develop linkages with industry for exposure about real life problems and its feasible solution.
- 3) To promote lifelong learning, Innovation and entrepreneurship for sustainable development
- 4) To assimilate social, cultural and ethical values for betterment of society.

### **PROGRAM EDUCATIONAL OBJECTIVES**

- 1) Graduates will enter and successfully engage in careers in Mechanical Engineering and other professions appropriate to their background, interests, and skills.
- 2) Graduates will engage in continued learning through post-baccalaureate education and/or professional development in engineering or other professional fields.
- 3) Graduates will develop as leaders in their chosen professions.



## A. Faculty/staff department wise &amp;STR , Cadre ratio

S. No.	Name	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor/ Associate Professor	Nature of Association (Regular/Contract/ Adjunct)
1	Prof K B Judal	Ph.D	Hybrid Machining and Finishing	Principal	01/04/2017	01/04/2017	Regular
2	Prof. J A Vadher	Ph.D.	Manufacturing Engineering	Professor	23/12/2015	23/12/2015	Regular
3	Prof. D M Patel	Ph.D.	Advance Manufacturing	Professor	18/05/22	18/05/22	Regular
4	Prof. A B Patel	ME-Mechanical	Heat Power	Assistant Professor	10/12/2013	-	Regular
5	Prof. V D Patel	ME-Mechanical	JP&GTP	Assistant Professor	16/06/2016	-	Regular
6	Prof.S.K.Dabhi	ME	SOLAR ENERGY, IC ENGINE, AUTOMOBILE	Assistant Professor		-	Regular
7	Prof. N A Patel	M.Tech. Mechanical	CAD/CAM	Assistant Professor	09/05/2011	-	Regular
8	Prof. A D Patel	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
9	Prof.V.K.Patel	ME-Mechanical	Machine Design	Assistant Professor		-	Regular
10	Prof. A R Chaudhari	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
11	Prof. P N Boka	M.Tech. Mechanical	Design Engineering	Assistant Professor	19/04/2011	-	Regular
12	Prof. A. K. Patel	M.Tech. Mechanical	Advanced Manufacturing Techniques	Assistant Professor	04/02/2012	-	Regular
13	Prof. N T Raval	ME-CAD/CAM	CAD/CAM	Assistant Professor	21/10/2013	-	Contract

**No of the Available Faculty:**

S. No.	Designation/Numbers	Number of Faculty in the Department for UG	
		CAY (2021-22)	CAYm1 (2020-21)
1.	Professor	2	2
2.	Associate Professor	0	0
3.	Assistant Professor	8	10
4.	Number of Ph.D	3	2

**Detail of Head of the Department for the program:**

Name: Prof. D. M. Patel

Qualification: - Ph. D Mechanical Engineering

**Student Faculty Ratio :-**

No. of UG Programs in the Department (n): 1

No. of Students in UG 2nd Year = u1

No. of Students in UG 3rd Year = u2

No. of Students in UG 4th Year = u3

No. of Students = Sanctioned Intake + Actual admitted lateral entry student

S = Number of Students in the Department = u1 + u2 + u3

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Year	2021- 2022
u1	69
u2	50
u3	57
Total No. of Students in the Department (S)	<b>176</b>
No. of Faculty in the Department (F)	<b>8</b>
Student Faculty Ration (SFR)	<b>SFR1=22</b>

**Faculty Cadre Proportion:**

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required =  $1/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F2: Number of Associate Professors required =  $2/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F3: Number of Assistant Professors required =  $6/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

Year	Professors		Associate Professors		Assistant Professors	
	Required	Available	Required	Available	Required	Available
2021-2022	1	1	2	0	6	8

### B. Program specific faculty competencies: --“Brief overview of faculty with potential skill and competencies, Specialization & Major area of work”

#### Faculty Contribution

Name of the Faculty	Designation (administrative position, if any)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ program, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. Of Sub publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					
Prof K B Judal	Principal & Professor	BE Saurashtra University 2000	ME Gujarat University 2002	Ph.D MNNIT Allahabad 2013	Hybrid Machining and Finishing	01/04/2017	5		
Prof. J A Vadher	Professor & Head	BE Bhavnagar University 1995	M.Tech IIT, Madras 1998	Ph.D HNGU, Patan 2009	Production	04/02/16	31		

Name of the Faculty	Designation (administrative position, if any)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ program, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. Of Sub publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					
Prof. D M Patel	Professor & Head	BE BVM 1997	M.Tech IIT, Kharapur 2006	Ph.D Ganp at University 2012	Advanced Manufacturing	18/05/22	95		
A B Patel	Asst. Prof.	BE NGU 1998	ME BITS, Mesra 2012	PUR	Heat Power	15/03/10	3		
V.D.Patel	Asst. Prof	B.EGU – 2000	M.E MSU – 2003	-	THERMAL	08/04/10	3		
Prof.S.K. Dabhi	ASST. PROF.								
N. A. PATEL	ASST. PROF.	B. E. NGU-2002	M.TECH H. GANP AT UNI.-2009	PUR	CAD/CAM	09/05/11	2		
A. D. PATEL	ASST. PROF.	B. E. GU-2003	M.E-SPU-2009	PUR	MACHINE DESIGN	21/4/11	1		
Prof.V. K.Patel	ASST. PROF.				MACHINE DESIGN				
A. R. Chaudhary	ASST. PROF.	B.E-SPU-2005	M.E-SPU-2008	PUR	MACHINE DESIGN	21/4/11	-		
P. N. BOKA	ASST. PROF.	B.E. KSKV, KU-	M.Tech -IITB-2015	PUR	DESIGN ENGI	25/09/08	1		

Name of the Faculty	Designation (administrative position, if any)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ program, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. Of Sub publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					
		2008			NEER ING				
A.K. Patel	ASST. PROF.	B.E. HNG U 2002	M.Tech GANP AT UNI 2008	PUR	AMT	04/02/12	-		
N.T. Raval	ASST. PROF.	B.E. SPU 2010	M.E. GTU 2013	-	CAD/ CAM	23/10/13	-		

### c. Faculty/staff training/seminar/conferences

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1	Prof.A.B.Patel	Accreditation and Outcome based Learning	MOOC-Online-NPTEL-IIT Karagpur	26-07-2021	17-09-2021	
2	Prof.A.B.Patel	Elements of FEM	ATAL-ONLINE-Government Engineering College, Bharuch	27-07-2021	30-07-2021	
3	Prof.A.B.Patel	Train the trainer	International Automobile Centre of Excellence,	28-03-2022	01-04-2022	

4	Prof.V.D.Patel	Assessment and Utilization of Renewable Energy Resources	GEC,PALANPUR	13-09-2021	17-09-2021	
5	Prof.V.D.Patel	Accreditation and Outcome based Learning	MOOC,NPTEL	01-07-2021	30-09-2021	
6	Prof.S.K.Dabhi	Elements of FEM	Online (ATAL)	26-07-2021	30-07-2021	
7	Prof.S.K.Dabhi	Accreditation and Outcome Based learning	Online (NPTEL)	26-07-2021	19-09-2021	
8	Prof.A.D.Patel	Assessment and Utilization of Renewable	Government Engineering College Palanpur	13-09-2021	17-09-2021	
9	Prof.A.D.Patel	Accreditation and Outcome Based Learning	NPTEL (Mooc)	01-07-2021	01-09-2021	
10	Prof.A.R.Chaudhari	Accreditation and outcome based learning	Online	01-07-2021	30-09-2021	
11	Prof.A.K.Patel	Assessment and Utilization of Renewable Energy	Government Engineering College Palanpur, Atal	13-09-2021	17-09-2021	

## D. Research: Publications IJ/J/C/IC, R&amp;D etc.

Name of faculty	CAYm1 (2019-20)				CAY (2020-21)				CAY (2021-22)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
KBJ	1	0	2	0	2	0	0	0	0	0	0	0
JAV	2	0	1	0	1	0	1	0	1	0	1	0
ABP	0	0	0	0	0	0	0	0	0	0	0	0
VDP	0	0	0	0	0	0	0	0	0	0	0	0
SKD	0	0	0	0	0	0	0	0	0	0	0	0
NAP	0	0	0	0	4	0	0	0	2	0	0	0
ADP	0	0	0	0	1	0	1	0	0	0	0	0
VKP	0	0	0	0	1	0	1	0	0	0	0	0
ARC	0	0	0	0	1	0	0	0	1	0	0	0
PNB	0	0	0	0	0	0	0	0	1	0	0	0
AKP	0	0	0	0	0	0	0	0	0	0	0	0
NTR	0	0	0	0	0	0	0	0	0	0	0	0
Sum	3	0	3	0	9	0	2	0	5	0	1	0
AY Sum	6				11				6			

**PATENT PUBLISHED**

Name of staff	Title	TYPEI	Month & Year of publication	
Prof. P. N. BOKA	Patent Published on "Solar Distillation Apparatus with Bottom Reflector" by the Patent Office	-	11/10/2021	-
Prof. A. K. Patel	Patent Published on "Universal Centrifugal Casting Machine" by the Patent Office Journal No. 51/2021 Dated 17/12/2021	-	17/12/2021	-

## Summary

Academic Year	No. of papers in National conference	No. of papers in International Conferences	No. of papers in National Journal	No. of papers in International Journals	Total no. of Publications
CAY (2021-22)	-	-	-	5	5
CAY m1 (2020-21)	0	1	0	9	10
CAYm2 (2019-20)	0	3	0	3	6
<b>Total</b>	0	4	0	12	16
<b>Patents filed</b>	-	-	-	-	-

## E. Invited talks/lectures delivered: Deptt. Wise

Sr. No.	Date / Year	Names of resource persons	Back ground industry/a cademic /R&D	Topics covered	No. of Beneficiaries
<b>Invited Faculty</b>					
1	-	-	-	-	-

## F. Research projects/COE/Labs/Training seminar organized

### Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2021-2022	-	-	-	-
2020-2021	9	-	-	9
2019-2020	4	1	-	5



## G. Faculty Quality Upgradation

### Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.		
	Year II (2021 – 2022)	Year II (2020 – 2021)	Year III (2019 – 2020)
QIP/Study leave	0	0	0
Seminars/workshops/Summer schools / winter schools	0	0	0
Training/Conferences	11	23	17

## H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
1	Mechanical	Prof. (Dr.) J A Vadher	Professor	Trasfer to GEC Modaga
2	Mechanical	Prof. V K Patel	Asst. Prof.	Transfer to VGEC, Chandkhed
3	Mechanical	Prof. N T Raval	Asst. Prof.	Resignation and Relieved

## **MINING ENGINEERING DEPARTMENT**

### **VISION**

"To produce competent mining engineers for exploitation and safe management of earth resources"

### **MISSION**

- 1) To impart quality technical education, to meet the needs of mining and mineral industry.
- 2) To inculcate the spirit of Sustainable Development and Conservation of natural resources through modern technology in Exploration and Production of minerals with due regard to Health, Safety and Environment.
- 3) To mentor students for Professional career and entrepreneurship.

### **PROGRAM EDUCATIONAL OBJECTIVES**

- 1) Advance in their careers, adapting to new situations and emerging problems, through the application of engineering skills and the core technical disciplines, analytical procedures, and design practices of the mining engineering profession.
- 2) Effectively practice as professional engineers, managers, and leaders in the mining Industries and/or a wide variety of other fields as engineers.
- 3) Utilize professional skills such as effective communication, teamwork, and leadership.

## A. Faculty/staff department wise &amp; STR, Cadre ratio

S. No.	Name	Qualification	Area of Specialization	Designation	Date of Joining	Date on which Designated as Professor / Associate Professor	Nature of Association (Regular/Contract/Adjunct)
1	Dr. Hitesh B Patel	Ph.D	Geology	Assistant Professor	29-06-1998	-	Regular
2	Mr. J.V. Modi	M.Tech MINING ENGINEERING	Rock Excavation Technology & Management	Assistant Professor	01-05-2018	-	Regular
3	Mr. Suraj Kumar	M.Tech	Mining Engineering	Assistant Professor	08-05-2018	-	Regular

No of the Available Faculty:

S. No.	Designation/Numbers	Number of Faculty in the Department for UG	
		CAY (2021-22)	CAYm1 (2020-21)
1	Professor	0	0
2	Associate Professor	0	0
3	Assistant Professor	3	3
4	Number of Ph.D	0	0

Detail of Head of the Department for the program:

Name: Dr. Hitesh B Patel

Qualification: - Ph.D

## Student Faculty Ratio:-

No. of UG Programs in the Department (n): 1

No. of Students in UG 2nd Year = u1

No. of Students in UG 3rd Year = u2

No. of Students in UG 4th Year = u3

No. of Students = Sanctioned Intake + Actual admitted lateral entry student

S = Number of Students in the Department = u1 + u2 + u3

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Year	2021- 2022
u1	31
u2	64
u3	62
Total No. of Students in the Department (S)	157
No. of Faculty in the Department (F)	3
Student Faculty Ratio (SFR)	SFR1=52.33

## Faculty Cadre Proportion:

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required =  $1/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F2: Number of Associate Professors required =  $2/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

F3: Number of Assistant Professors required =  $6/9 \times$  Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per Table A

Year	Professors		Associate Professors		Assistant Professors	
	Required	Available	Required	Available	Required	Available
2021-2022	0	0	1	0	3	2

**B. Program specific faculty competencies: “Brief overview of faculty with potential skill and competencies, Specialization & Major area of work”.**

Name of the Faculty	Designation	Qualifications, University & year of Passing			Area of Specialization	Date of joining	No. of Research publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					
Hitesh B Patel	Asst Prof.	1994	1996	-	Geology	29-06-1998	-	-	-
Prof. J.V. Modi	Asst Prof.	2009	2014	-	Rock Excavation Technology & Management	01-05-2018	-	-	-
S.K.modi	Asst Prof.	2007	2009	-	Mining Engineering	08-05-2018	-	-	-

### C. Faculty/staff training/seminar/conferences

Faculty Name	Title of the training	Venue	From	To
Suraj Kumar	Surface Mining Technology	NPTEL Online	26-07-2021	15-10-2021
J.V.Modi	Underground Mining of Metalliferous deposits	NPTEL Online	26-07-2021	15-10-2021
Suraj Kumar	Drilling and Blasting Technology	NPTEL Online	21-02-2022	15-04-2022
J.V.Modi	Drilling and Blasting Technology	NPTEL Online	21-02-2022	15-04-2022
J.V.Modi	Entrepreneurial Intelligence for Academic Leaders	Narmada College of Management Online	24-03-2022	29-03-2022

### D. Research : Publications IJ/J/C/IC, R&D etc.

Name of faculty	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)

	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
J.V.Modi	-	-	-	-	-	-	-	-	-	-	-	-
Suraj Kumar	-	-	-	-	-	-	-	-	-	-	-	-
Sum	-	-	-	-	-	-	-	-	-	-	-	-
A.Y. Sum												

## Summary

Academic Year	No. of papers in National conference	No. of papers in International Conferences	No. of papers in National Journal	No. of papers in International Journals	Total no. of Publications
2021-2022	--	--	--	--	--
2020-2021	--	--	--	--	--
2019-2020	--	--	-	--	-
total	--	--	-	--	-
Patents filed	--	--	--	--	--

## E. Invited talks/lectures delivered

Sr. No.	Date / Year	Names of resource persons	Background industry / academic / R & D	Topics covered	No. of Beneficiaries
1			NIL		

## F. Research projects/COE/Labs/Training seminar organized

## Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2021-2022	Nil	Nil	Nil	Nil
2020-2021	Nil	Nil	Nil	Nil

2019-2020	Nil	1	Nil	1
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## G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2021 – 2022)	Year II (2020 – 2021)	Year III (2019 – 2020)	Year IV (2018 – 2019)
QIP/Study leave	0	0	0	0
Seminars/workshops/Summer schools / winter schools	0	0	0	0
Training/Conferences	0	0	2	0

## H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
Nil				

## I. Institute Work Distribution

No.: GECPL/Admin/2020-21/6

Date: 04/02/2022

- Read: (1) Work distribution office order no. GECPL/Admin/2020-21/6 Dated 01/01/2021.  
 (2) Office order (Amendment) no. GECPL/Admin/2020-21/853 Dated 24/09/2021.  
 (3) Office order no. GECPL/EST/42 Dated 17/01/2022, GECPL/EST/138 Dated 04/02/2022

### Office Order (Revised): -

(With effect from Date: 04/02/2022)

Following administrative/ managerial duties are assigned to corresponding officers/staff in addition to their regular job specific responsibilities for smooth functioning and overall development of the institute till further order. All are informed to maintain records with proof and present as and when required.

1	<b>Head, Human Resource (Faculty &amp; Staff):</b>	<b>Convener</b>	<b>Member</b>
1	Administrative officer	Dr. C.G.Prajapati	A.V. Vaghela
2	Institute Overload committee and workload calculation	Dr.F.J.Narsingani	
3	RTI / Legal Matters	H.N. Chaudhari	G.K. Chaudhari
4	Internal Complaint Committee (ICC)/Women Development Cell	R.H.Chaudhari	Dr.F.J.Narsingani N. K. Prajapati
5	IQAC / CAS /API/Grievance Redressal	P.C.Vasani	D.A. Patel
6	Faculty/Staff Training/Research Process/Compilation	Dr. A.M. Patel	S.K. Dabhi
7	Accounts Officer	Dr. K.M. Korot	J.G. Prajapati
2	<b>Head, Student Affairs:</b>	<b>Convener</b>	<b>Members</b>
1	Student Section, GTU Related Services & Examinations (GTU & Others)	D.A. Patel	S.K. Dabhi, R.H. Chaudhari, H.U. Patel, M.K. Patel, S.L. Modi
2	Student Scholarships & Related matters	K.G.Prajapati	V.H. Khokhani
3	Gymkhana	Dr. K.M. Korot	N.A. Patel, D.A. Patel
4	Alumni Association	Dr. A.M. Patel	H.U. Patel
5	NSS	Dr.C.G.Prajapati	D.A. Patel
6	NCC	Dr. K.M. Korot	Y.J. Chauhan
7	Anti-Ragging Committee	Dr. A.M. Patel	J.V. Modi
8	Student Welfare & Mentor international student CSR	A.D. Patel	Y.J. Chauhan
9	Admission & Help Center	K.G.Prajapati	N.R. Kotiya
10	Student Performance/Result Analysis/Feedback	A.K. Patel	J.H. Patel, V.H. Khokhani
3	<b>Head, Store &amp; Purchase:</b>	<b>Convener</b>	<b>Members</b>
1	Central Store (Insti. Purchase/Vikaslaxi/New Items) / ST/ AMTS & Tendering for Outsourcing, Write-off	B.R.Patel	A.R.Chaudhari
4	<b>Head, Academics:</b>	<b>Convener</b>	<b>Members</b>
1	First Year Coordination / IIPC	A.D.Patel	K.G.Prajapati, S.G.Chauhan, J.V.Modi
2	Institute Timetable Coordination	Dr. C.G.Prajapati	A.R.Chaudhari , J.H. Patel, R.K.Rathod
3	Event Report Preparation, CTE Meeting/VC Info. Follow-up/ Compilation, Minutes of Meeting	V.D. Patel	J.V. Modi
4	AICTE /GTU Affiliation, AISHE/ NIRF	H.V. Hirvaniya	J.H. Patel



5	NBA, Academic Calendar, Academic Inspection	Dr. J.A. Vadher, Dr. A.M.Patel	A.D.Patel N. R. Kotiya
6	SSIP Cell, GTU IDP/UDP, CIC3, Virtual Lab	N.A. Patel H.V. Hirvaniya	M.K.Patel R.K. Rathod
<b>5</b>	<b>Head, Infrastructure &amp; Maintenance:</b>	<b>Convener</b>	<b>Members</b>
1	Civil Maintenance and Liaison with PWD	Dr.G.M.Savaliya	N. R. Kotiya
2	Housekeeping/Landscaping	V.H. Khokhani	S.G. Chauhan
3	Electrical Maintenance and Liaison with R&B Elect.	B.R.Patel	
4	Mechanical Maintenance (RO/AC/FE)	A.R.Chaudhari	A.K.Patel
5	Computer/ Printer/Projector Network, Internet, CCTV, VC management and Maintenance issues	P.N.Boka	M.J.Trivedi
6	Campus Security	H.N.Chaudhari	
7	KYC Portal, Website management and updating, MIS	A.K.Patel	M.J.Trivedi
<b>6</b>	<b>Head, Industry &amp; Outreach:</b>	<b>Convener</b>	<b>Members</b>
1	Training and Placement Cell / Industry-Institute Interaction (I-I-I) Cell / MOU /CII/ Finishing School	P.C. Vasani	N.A. Patel, Dr.G.M.Savaliya, H.V.Hirvaniya, S.L. Modi
2	Institute Publishing Committee, Institute Brochure, E-Newsletter, Inst &Dept Brochure	A.B. Patel	M.G. Prajapati, M.N. Prajapati
3	AMIE/Profess. bodies/Student Chapters & Consultancy	Y.J. Chauhan	
4	RUSA/Skill Development/GKS/EBSB & GOI Scheme	Dr. J. A. Vadher	H.U.Patel, S.K. Dabhi
5	Language Lab/SCOPE	Dr.G.M.Savaliya	M.G.Prajapati
6	ED Cell/Design Lab.	P.N.Boka	M.K.Patel
7	Media Coordinator/Branding	D.A. Patel	R.K. Rathod
<b>7</b>	<b>Head, Amenities:</b>	<b>Convener</b>	<b>Members</b>
1	Library	M.G.Prajapati	M.N.Prajapati
2	Hostel Rector / Medical Facility	H.B. Patel	J.G. Prajapati
3	Hostel Warden (Boys)	Dr. K.M. Korot	H.N. Chaudhari
4	Hostel Warden (Girls)	Dr.F.J.Narsingani	
5	Canteen, Student Store and other student Amenities	H.U. Patel	M.N. Prajapati

**Note:** For portfolio specific roles & responsibility and related information refer TEIM for GECs (May-2018).

### Responsibilities of concerned Convener/Member:

1. Prepare an annual action plan with clear objectives by following standard methodology considering NBA requirements as benchmark for overall development/smooth functioning of the institute.
2. Constitute appropriate committee/representatives if necessary to achieve/implement the goals/objectives/strategies mentioned in the annual action plan.
3. Collection of previous data/documents/proofs from Ex. Convener/Incharge if required and proceed further to achieve the target as planned in action plan.
4. Proactive initiative for reformation in allotted portfolio and quality recordkeeping for exhibits.
5. Motivate the team to accomplish the planned work as per annual action plan.
6. Coordination with committee/members/representatives to monitor progress/lagging /follow-up.
7. Disseminate portfolio specific information/best practices at appropriate places for branding.
8. Prepare annual summary report mentioning brief statistics of fulfillment of objectives/goals for allotted responsibilities. Also maintain portfolio specific records/proofs for the purpose of NBA/AICTE.
9. Submit the achievements/best practices to admin office/publishing committee for further processing.



(Dr. K. B. Judal)

Date:04/02/2022

Read: Technical Education Institution Manual [TEIM] for Government Engineering College May 2018.

No.: GECPL/Admin/2022-23/570

Date: 31/05/2022

**Office Order: -**

**(With effect from Date: 01/06/2022)**

Following administrative/ managerial duties are assigned to corresponding officers/staff in addition to their regular job specific responsibilities for smooth functioning and overall development of the institute till further order. All are informed to maintain records with proof and present as and when required.

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1	Administrative officer	Dr. C.G.Prajapati	M.B. Chaudhary
2	Institute Overload committee and workload calculation	Dr.F.J.Narsingani	
3	RTI / Legal Matters	H.N. Chaudhari	G.K. Chaudhary
4	Internal Complaint Committee (ICC)/Women Development Cell	R.H.Chaudhari	Dr.F.J.Narsingani N. K. Prajapati
5	CAS /API/Grievance Redressal	V.D. Patel	D.A. Patel
6	Faculty/Staff Training/Research Process/Compilation	Dr. A.M. Patel	S.K. Dabhi
7	Accounts Officer	Dr. K.M. Korot	J.G. Prajapati
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1	Student Section, GTU Related Services & Examinations (GTU & Others)	D.A. Patel	S.K. Dabhi, R.H. Chaudhari, H.U. Patel, M.K. Patel, S.L. Modi, V.P. Patel
2	Student Scholarships & Related matters	K.G.Prajapati	V.H. Khokhani
3	Gymkhana	Dr. K.M. Korot	N.A. Patel, D.A. Patel
4	Alumni Association	Dr. A.M. Patel	H.U. Patel
5	NSS	Dr.C.G.Prajapati	Dr.F.J.Narsingani D.A. Patel
6	NCC	Dr. K.M. Korot	Y.J. Chauhan
7	Anti-Ragging Committee	Dr. A.M. Patel	J.V. Modi
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4	AICTE /GTU Affiliation, AISHE/ NIRF	H.V. Hirvaniya	J.H. Patel, Y.J. Chauhan
5	IQAC(Proceeding, MoMs & Annual QA Report), NBA, Academic Inspection, Academic Calendar	Dr. D.M. Patel, Dr. A.M.Patel	A.D.Patel N. R. Kotiya
6	SSIP Cell, GTU IDP/UDP, CIC3, Virtual Lab	N.A. Patel H.V. Hirvaniya	M.K.Patel R.K. Rathod
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3	Electrical Maintenance and Liaison with R&B Elect.	B.R.Patel	H.N. Chaudhari
4	Mechanical Maintenance (RO/AC/FE)	A.R.Chaudhari	A.K.Patel
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2	Institute Publishing Committee, Institute Brochure, E-Newsletter, Inst &Dept Brochure	Dr.F.J.Narsingani A.B. Patel	M.G. Prajapati, M.N. Prajapati, S.L. Modi
3	AMIE/Profess. bodies/Student Chapters & Consultancy	A.K. Patel	Y.J. Chauhan
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6	ED Cell/Design Lab.	P.N.Boka	M.K.Patel
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4	Hostel Warden (Girls)	R.H. Chaudhary	
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4. Proactive initiative for reformation in allotted portfolio and quality recordkeeping for exhibits.
5. Motivate the team to accomplish the planned work as per annual action plan.
6. Coordination with committee/members/representatives to monitor progress/lagging /follow-up.
7. Disseminate portfolio specific information/best practices at appropriate places for branding.
8. Prepare annual summary report mentioning brief statistics of fulfillment of objectives/goals for allotted responsibilities. Also maintain portfolio specific records/proofs for the purpose of NBA/AICTE.
9. Submit the achievements/best practices to admin office/publishing committee for further processing.

Date:31/05/2022

(Dr. K. B. Judal)

## J. New Student Related Policies Framed

- From the current Academic year, the student fee (any type of Fee like Institute Fee, Hostel Fee, Examination Fee, any delayed fine etc.) deposition through *Q-Fix Online Fee management system* is now functional.
- COVID-19 SOPs are strictly followed in the institute premises.
- All the student applications related to necessary certificates/Formats like Bonafide Certificate, Mark sheet Collection, I-Card, etc. are taken through Online and Offline modes.

## K. Institutional Committees

NO:GECPL/364

DATE:1-4-2021

### Anti Ragging Committee

References:

1. AICTE notification No. 37-3/ Legal/ AICTE/ 2009 dated 01.07.2009 Regulations for prevention and prohibition of ragging.
2. UGC Circular F.1-16/2007(CPP-III) dated 17-06-2007 regarding regulations on curbing the menace of ragging.
3. GTU/Academic/Anti Ragging/2013/7096 dated 22-07-2013.

With above references, the institute hereby nominate following members as a part of Anti Ragging Committee. This committee will have a term of two years.

Sr. No.	Name of Committee Member	Designation	Position in Committee
1.	Dr. K. B. Judal	Principal	Chairperson
2.	Dr. A.M. Patel	Asstt. Professor	Convener
3.	Prof. V.H.Khokhani	Asstt. Professor	Member (Faculty representative)
4.	Smt. Laxmiben Karen	Member of District Panchayat Banaskhantha	Member (Representative Civil)
5.	Mr. Narendra D. Patel	PSI-DSP Office Palanpur	Member (Representative Police)
6.	Mr. Hasmukh Bhai	News Reporter-ETv	Member (Representative Media)
7.	Mr. Puravbhai Modi	Member, Indian Tiger Group	Member (Representative NGO)
8.	Mr. Nayanbhai P. Joshi	Service, PGVCL	Member (Parent)
9.	Dharmik Desai	Student-Electrical	Student Member
10.	Yagnik Trivedi	Student-Civil	Student Member
11.	Shreyansh M.Jaiswal	Student-Mechanical	Student Member

The Committee ensures compliance with the provisions of the Regulations as well as the provisions of any law for the time being in force concerning ragging.

NO:GECPL/70

Date:22/1/2020

**Anti Ragging Squad**

As per All India Council for Technical Education notified Regulation for prevention and prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/ Legal/ AICTE/ 2009 dated 01.07.2009.

The institute hereby nominate following members as a part of Anti-Ragging Squad till further order. They have to remain mobile, alert and active at all times to prevent ragging in academic and hostel campus as per the referred AICTE Notification.

Sr. No.	Name of Committee Member	Designation
1.	Prof.P.C.Vasani	Professor
2.	Prof.(Dr.) J. A. Vadher	Professor
3.	Prof. H. B. Patel	Assistant Professor
4.	Prof. B. R. Patel	Assistant Professor
5.	Prof. H.N.Chaudhary	Assistant Professor (Warden-Boys Hostel)
6.	Prof. K.M.Korot	Assistant Professor (Asstt. Warden-Boys Hostel)
7.	Mr. G. M. Patel	Store Keeper
8.	Mr. J. G. Prajapati	Jr. Clerk

- The Squad makes surprise raids on hostels, and other places vulnerable to incidents and having the potential for ragging and shall be empowered to inspect such places.

It shall also be the duty of the Anti-Ragging Squad to conduct an on-the-spot enquiry into any incidents of ragging referred to it by any responsible stakeholder, as the case may be; and the enquiry report along with recommendations shall be submitted to the Anti-Ragging Committee for action.

NO:GECPL/74

Date:22/01/2020

**Student Grievance Redressal Committee**

As per All India Council for Technical Education (Establishment of Mechanism for Grievance Redressal) Regulations, 2012, F. No. 37-3/ Legal 12012, dated 25.05.2012.

In order to provide a mechanism to innocent students for redressal of their grievances and to make all efforts to ensure transparency in all the activities at different stages, the institute hereby nominate following members as part of Grievance Redressal Committee till further order.

Sr. No.	Name of Committee Member	Designation	Position in Committee
1.	Dr. K. B. Judal	Principal	Chairman
2.	Prof.P.C.Vasani	HOD-Civil	Member
3.	Prof. (Dr.) J. A. Vadher	HOD-Mechanical	Member
4.	Prof. B. R. Patel	HOD-Electrical	Member

5	Prof. H. B. Patel	HOD-Mining	Member
6	Mr. A. V. Vaghela	Office Superintendent	Member
7	Prof. D. A. Patel	Assistant Professor	Convener
8	Nilesh Prajapati	Student (B.E. Civil)	Student member

This committee will deal with all the Grievances directly which is related to the common problems at Institute level both Academic and Administrative. In addition, this committee will also entertain the appeal filed by the student against the decision of the Department level committee.

NO:GECPL/8

DATE:1-1-2021

### Internal Complaint Committee (ICC)

As per Section 4 All India Council for Technical Education (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutions) Regulations 2016, Institute hereby constitutes Internal Complaints Committee (ICC) which constitutes following members. This committee will have a term of two years.

Sr. No.	Name of Member	Designation	Contact Number
<b>Chairperson:</b>			
1	Prof.R.H.Chadhry	Assistant Professor	9925029215
<b>Faculty Members:</b>			
2	Prof.P.N.Boka	Assistant Professor	9724019504
3	Prof.V.K.Patel	Assistant Professor-Mechanical	9426358687
4	Prof. F.J.Narsingani	Assistant Professor-Maths	9879557552
5	Prof.V.H.Khokhani	Assistant Professor-Civil	6355703368
<b>Non-Teaching Members:</b>			
7	Mr. A.V.Vaghela	Head Clerk	9725504094
8	Mr. G. M. Patel	Store Keeper	9429307852
9	Ku.K.P.Shah	Lab Assistant-Electrical	9725222992
<b>Student Members:</b>			
10	Prajapati Riya	6 <sup>th</sup> Electrical	
11	Patel Hetal	6 <sup>th</sup> Civil	
12	Chaudhari Brijal	4 <sup>th</sup> Civil	
<b>Member from NGO:</b>			
12	Smt.Laxmiben Karen	Member of District Panchayat	

NO:GECPL/365

DATE:1-4-2021

### Internal Complaint Committee (ICC)

As per Section 4 All India Council for Technical Education (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutions) Regulations 2016, Institute hereby constitutes Internal Complaints Committee (ICC) which constitutes following members. This committee will have a term of two years.

Sr. No.	Name of Member	Designation	Contact Number
<b>Chairperson:</b>			
1	Prof.P.C.Vasani	Professor	9825342208
<b>Faculty Members:</b>			
2	Prof.P.N.Boka	Assistant Professor	9724019504
3	Prof.V.K.Patel	Assistant Professor-Mechanical	9426358687
4	Prof R.H.Chaudhary	Assistant Professor-Maths	9925029215
5	Prof. F.J.Narsingani	Assistant Professor-Maths	9879557552
6	Prof.V.H.Khokhani	Assistant Professor-Civil	6355703368
<b>Non-Teaching Members:</b>			
7	Mr. A.V.Vaghela	Head Clerk	9725504094
8	Mr. G. M. Patel	Store Keeper	9429307852
9	Ku.K.P.Shah	Lab Assistant-Electrical	9725222992
<b>Student Members:</b>			
10	Prajapati Riya	6 <sup>th</sup> Electrical	
11	Patel Hetal	6 <sup>th</sup> Civil	
12	Chaudhari Brijal	4 <sup>th</sup> Civil	

NO:GECPL/9

DATE:1/1/2021

### Committee for Prevention of Sexual Harassment

As per Handbook on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013, Institute hereby constitutes Committee for Prevention of Sexual Harassment which includes following members:

Sr. No.	Name of Member	Designation	Contact Number
---------	----------------	-------------	----------------



<b>Chair person:</b>			
1	Prof. R. H. Chaudhary	Assistant Professor	9925029215
<b>Faculty Members:</b>			
2	Prof. V.K.Patel	Assistant Professor-Mechanical	9426358687
3	Prof. F.J.Narsingani	Assistant Professor-Maths	9879557552
4	Prof. V.H.Khokhani	Assistant Professor-Civil	6355703368
5	Mrs. N. K. Prajapati	Lab. Assistant- Mechanical	9099760971
<b>Student Members:</b>			
6	Viramgami Priya	6 <sup>th</sup> Electrical	
7	Dhumar Binal	6 <sup>th</sup> Civil	
8	Chaudhari Rita B	4 <sup>th</sup> Civil	
9	Jua Rinnku	2 <sup>th</sup> Civil	

(Dr. K. B. Judal)

**Objectives of the Committee:**

1. To prevent discrimination and sexual harassment against women, by promoting gender harmony among students and employees ;
2. To lay down procedures for the prohibition, resolution, settlement and prosecution of acts of discrimination and sexual harassment against women, by the students and the employees;
3. To deal with cases of discrimination and sexual harassment against women, in a time bound manner, aiming at ensuring support services to the victimized and termination of the harassment;
4. To recommend appropriate punitive action against the guilty party to the Principal of Government Engineering College, Palanpur.

**NO:GECPL/7****DATE:1/1/2021****Women Development Committee (WDC)**

As per the directives of Gujarat Technological University/AICTE, institute hereby constitutes Women's Development Committee consists of following members till further order.

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Designation</b>	<b>Contact Number</b>

<b>Chair person:</b>			
1	Prof. R. H. Chaudhary	Assistant Professor Mathematics	9925029215
<b>Faculty/Staff Members:</b>			
2	Prof.V.K.Patel	Assistant Professor-Mechanical	9426358687
3	Prof. F.J.Narsingani	Assistant Professor-Maths	9879557552
4	Prof.V.H.Khokhani	Assistant Professor-Civil	6355703368
5	Prof. N. A. Patel	Assistant Professor-Mechanical	9879328977
6	Mrs.N.K.Prajapati	Lab Assistant- Mechanical	9099760971
<b>Student Members:</b>			
7	Viramgami Priya	6 <sup>th</sup> Electrical	
8	Dhumar Binal	6 <sup>th</sup> Civil	
9	Patel Hetal	6 <sup>th</sup> Civil	
10	Jua Rinku	4 <sup>th</sup> Civil	

(Dr. K. B. Judal)

**Roles and Functions of WDC:**

1. To create social awareness to female staff members and girl students in the college about the relevant issues related to women.
2. To encourage the members to participate in the activities exclusively meant for their development as women.
3. To organize seminars, workshops for creating general awareness and orientation to students, teachers, non-teaching staff for their active and sustained participation in the activities of the Committee.
4. To promote general well-being of female students, teaching and non teaching female staff of the institute.
5. To inculcate social values in them by conducting community service activities.
6. To organize various types of training programs and create awareness about self-employment & self-defense for the encouragement of self-reliance among women.

NO:GECPL/73

Dt.22/1/2020

**SC-ST CELL**

Government Engineering College, Palanpur has reconstituted a SC-ST cell as per the guidelines of University Grants Commission, New Delhi, and Ref.F 1-5/2006 (S.T.C) Dated 25-08-2006. The details of members are as follows.

Sr. No.	Name of Committee Member	Designation	Position in Committee
1.	Dr. K. B. Judal	Principal	Chairperson
2.	Prof. J. A. Vadher	Asstt. Professor	Liaison Officer (College Representative)
3	Prof. H. V. Hirvaniya	Assistant Prof (Electrical)	Coordinator (SC-ST CELL)
4	Prof. M. K. Patel	Assistant Prof (Electrical)	Member open (Male)
5.	Prof. R. H. Chaudhary	Asstt. Professor	Member open (Female)

NO:GECPL/406

DATE:20/4/2022

**Women Development Internal Complaint Committee (ICC)**

As per Section 4 All India Council for Technical Education (Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and Students and Redressal of Grievances in Technical Institutions) Regulations 2016, Institute hereby constitutes Internal Complaints Committee (ICC) which constitutes following members. This committee will have a term of two years.

Sr. No.	Name of Member	Designation	Contact Number
<b>Chairperson:</b>			
1	Prof R.H.Chaudhary	Assistant Professor-Maths	9925029215
<b>Faculty Members:</b>			
2	Prof.P.N.Boka	Assistant Professor	9724019504
3	Prof. F.J.Narsingani	Assistant Professor-Maths	9879557552
4	Prof.V.H.Khokhani	Assistant Professor-Civil	6355703368
5	Prof.U.R.Patel	Assistant Professor-Applied-	9998815530
<b>Non-Teaching Members:</b>			
7	Mr. A.V.Vaghela	OS	9725504094

8	Mr. G. M. Patel	Store Keeper	9429307852
9	Ku.K.P.Shah	Lab Assistant-Electrical	9725222992
<b>Student Members:</b>			
10	Jua Rinku	6 <sup>th</sup> Civil	
11	Panchal Vaidehi Prakashbhi	4 <sup>th</sup> Electrical	
12	Purvi Panchal	1 <sup>th</sup> Civil	
<b>Member from NGO:</b>			
13	Smt.Laxmiben Karen	Member of District Panchayat	

## L. Activities of Women Development Cell

✦ Arranged an online Expert lecture which was delivered by Dr. Pina Bhatt-Vice Provost of Silver Oak University & Principal of Aditya Silver Oak Institute of Technology, Ahmedabad on “youth are the pillar to build ideal and progressive Nation” on 09/09/2021, participants were more than 128.



✦ Arranged Seminar on “181- Abhayam Awareness” which was delivered by Abhayam Team on 18/10/2021, participants was 35.



- ✚ Arranged Four-day Workshop on “Grooming & Beauty Parlour” which was delivered by Mrs.Ritaben Shailesh Kumar Daiya on 23/12/2021 TO 28/12/2021,participants were 16.



- ✚ Arranged seminar on” Awareness on Women Health” on 06/01/2022 which was delivered Dr.Manisha Chaudhary (Gynecologist) ,participants were 16.



- ✚ Arranged Workshop on “Self Defence” on 07/3/22 to 14/3/22, which was conducted by Shihan Jayesh Prajapati, participants was 30.



- ✚ Arranged Expert talk on” Cyber Security Awareness” on 08/3/22, which was delivered Cyber Crime Cell, Palanpur ,participants were 28.



## **LIBRARY**



# LIBRARY

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## **About:**

Government Engineering College, Palanpur Library is the heart of the institute which aims to provide an ideal ambience for both creation & dissemination of knowledge, information & intellect in all its academic programs. The college library is well equipped with wide ranging books of all four technical streams. It provides a serene and noiseless atmosphere to students for reading. The current numbers of books stand at about 14236. These books are classified as per Dewey Decimal Classification System (DDC). Data entry of all these books is done in Soul 2.0 Network version. Book issue and return facilities, book search option is to be done through this Soul 2.0 software. Total 175 volumes of books helping the students to crack the competitive examinations are available. Total 24 spiritual books helping students to develop Spiritual Quotient (SQ) are also available. All these books have been well arranged and categorized properly so that it is easily feasible to reach out for them and they are monitored by CC TV Cameras. Free internet access facility is provided to the students.

## **Newspapers & Magazines**

Total 12 journals and 16 magazines and three major daily newspapers are subscribed in the library for the student to keep them abreast with day-to-day happenings in all fields across the globe.

- Gujarat Samachar
- Sandesh News
- Time of India

## **Reading Area**

Large and comfortable seating arrangement (80 chairs) with silent environment providing a perfect place for students to study and enhance their knowledge.

## **Library Utilization:**

From July -2021 to June 2022 total books issued to the faculty is 281 and to the students are 1805.

## **Self-learning facilities/ Learning out of the box (beyond syllabus) –**

A self-learning facility includes computer room with high-speed internet connectivity aid students learn from the Internet. It also includes Wi-Fi connectivity across the entire library allows mobile learning. Some Non-Technical books are available in the library for learning beyond the syllabus.

## **INSTITUTE DEVELOPMENT / IMPROVEMENT**

## INSTITUTE DEVELOPMENT / IMPROVEMENT

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### A. Internet/Network/Wifi/CCTV/Laptops/Printers

Availability of Desktop, Printer, Laptops, Scanner and CCTV Camera

DESKTOP PC	367
PRINTER/COPIER	68
LAPTOP	18
SCANNER	6
CAMERA	36
LCD PROJECTOR	12
SERVER	3
ANSYS	2020R2

Availability of points of connection for Internet, WiFi, Camera

LAN POINTS	697
WIFI POINTS	20
CAMERA POINTS	36
NAMO WIFI POINTS	7

INTERNET PROVIDER

RAILTEL	100 MBPS
BSNL	2 MBPS
GSWAN	2 MBPS

**B. Safety/Security/Emergency/Medical Care/First Aid**

- Security person is allotted in all the department building as per requirement,
- First aid box is available at institute.
- Fire safety bottles are installed at each and every point of requirement in each building. Total 100 no. of bottles are available in the institute.
- Fire Extinguishers bottles are available in each department as per below table.

Sr No	NAME OF DEPARTMENT	CO2 TYPE	ABC TYPE		
		4.5 KG	5 KG	4 KG	2 KG
1	ADMIN DEPT	1	0	5	4
2	LIBRARY	1	0	1	8
3	AMINITIES BLOCK	1	0	7	3
4	ELECT. CONTROL ROOM	1	0	0	0
5	ELECTRICAL DEPT.	1	2	8	4
6	MECHANICAL DEPT.	1	0	10	4
7	WORKSHOP	1	0	10	0
8	CIVIL DEPT.	1	0	9	3
9	MINING DEPT	1	0	9	4

## Mock Drill for Fire Safety

### **Fire Safety Awareness program and Fire Mock Drill**

#### **Report:**

Government Engineering college organized “Fire Safety Awareness program and Fire Mock Drill” on the 1<sup>st</sup> September, 2020 by coordination of **Mechanical Maintenance Committee** for students and staff. Mr. Fenil Patel, Manager, E-Power Corporation, Jamnagar gave speech to aware about fire safety. They also performed mock drill to distinguish fire planted. The Photographs of the same are shown below.





### C. Details of solar photovoltaic system installed

100 KW solar power generation systems is installed at GEC Palanpur by TATA power solar system Ltd approved by GEDA. There are four units in which 2 unit each having capacity of 30 KW and 2 units having capacity of 20 KW

## D. Residences for Students/Staff

### i. BOYS HOSTEL/GIRLS HOSTEL : FACILITY AND FEES

Intake:

Boys Hostel: 186

Girls Hostel: 48

Fee structure:

New admission: Rs. 1950 Hostel fee per semester + Rs. 1000 Security Deposit (Refundable)

Renewal admission: Rs. 1950 Hostel fee per semester

Facilities:

- 3 students are given accommodation in single room
- Table, cot, chair and cupboard are provided to each students
- RO water for 24 hours
- For entertainment TV room and sport facilities are available
- Hot water by solar water heater for bath
- Mess facility available
  - Tea in morning
  - Lunch
  - Snack in evening
  - Dinner

### ii. OFFICER/STAFF QUARTERS

Class-I and Class-III staff quarters are constructed by Road and Building Department, Palanpur and possession is handed over to Government Engineering College Palanpur in January 2020.

Officer/Staff quarters consist:

- (1) 4 staff quarters of E-Types (G+2 Building) for class-I officers and
- (2) 4 staff quarters of C-Types (G+2 Building) for Class-III staff.

**BUDGET ALLOCATION AND UTILIZATION**



## BUDGET ALLOCATION AND UTILIZATION

Sr. No.	OBJECT HEAD	ALLOCATION OF GRANT	UTILISATION	Remark
1	2	3	4	5
	<b>OBJECT CLASS-1</b>			
1	Salaries	<b>69948000</b>	<b>69943647</b>	
	<b>OBJECT CLASS-2</b>		<b>0</b>	
1	Domestic Travel Expenses	<b>2237000</b>	<b>53318</b>	
2	Office Expense		<b>2182239</b>	
3	Rent Rates and Taxes		<b>0</b>	
4	Publications/Library		<b>0</b>	
5	Banking Cash Transaction Tax		<b>0</b>	
	<b>TOTAL</b>	<b>2237000</b>	<b>2235557</b>	
	<b>OBJECT CLASS-3</b>		<b>0</b>	
1	Supplies and Materials	<b>10301000</b>		
2	Advertising & Publicity		<b>0</b>	
3	Professional Services		<b>123840</b>	
4	Out sourcing(Man Power)		<b>10176173</b>	
	<b>TOTAL</b>	<b>10301000</b>	<b>10300013</b>	
	<b>OBJECT CLASS-6</b>			
1	Motor Vehicales	<b>42000</b>		
2	Machinery & Equipment		<b>40892</b>	
	<b>TOTAL</b>	<b>42000</b>	<b>40892</b>	
1	Gymkhana	<b>144400</b>	<b>37054</b>	Up to March-2022
2	Social gathering	<b>72400</b>	<b>59000</b>	
3	Student welfare	<b>72400</b>	<b>202700</b>	
4	GTU internal	<b>169800</b>	<b>318357</b>	
	<b>GRAND TOTAL</b>	<b>82987400</b>	<b>83137240</b>	

*Note: All figures are in INR.*

## **DESIGN LAB**

## DESIGN LAB

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### Objective of the Design Lab:

- The objective of this scheme is to create a culture of innovation throughout the State by fostering creativity and innovative imagination of students and researcher. This will also to provide opportunity and a platform to the person with the innovative mindset to work with tools and equipment to transform his/her idea into product.

### Funding to the Design Lab:

- The GUJCOST has procure and provide this comprehensive package of equipment / instrument, tools and accessories costing of Rs. 25,00,000.00 (Rupees Twenty-Five Lakh).

### Purpose of Design Lab:

- Purpose of design lab is to support Final Year student Project, Testing, Jobwork, Model & Prototype preparation, Consultancy etc.

### Activities in Design Lab:

- Conducting Programs to train and explain to the students about different concepts - ranging from ideation, design, prototyping, networking to physical computing. Workshops on problem solving, designing and fabrication of products etc.

**Date of Application for Design Lab:** 06-07-2017

**Sanction Date of Design Lab:** 13-10-2017

**Date of Establishment of Design Lab:** 01-09-2018

**Installation and Training in Design Lab:** 27-02-2018

## List of Items Available in Design Lab

Sr No	Item Name
1	CCTV Wired System - 2B2D-HD2WMK
2	CCTV Wireless System camera
3	Compact Thermal Imaging System
4	Thermal Camera for Product Inspection - TG165
5	Wall Adapter Power Supply - 5VDC 2A (Barrel Jack)
6	Adaptor 12V 2A
7	DC power supply - PWS2185
8	Digital Multi-meter - 3.5 Digit Portable Digital Multimeter
9	Tektronix TBS1064, 60 MHz, 4 Channel, Digital Oscilloscope, 1 GS/s Sampling

10	Intelligent Power Module for DC-DC Convertor
11	Intelligent Power Module for Motor Control
12	STEVAL-IHM028V2 - Evaluation Board, 3 Phase Motor, VIPER26, Power Management
13	EECF5R5H104 - Supercapacitor, EDLC, 0.1 F, 5.5 V, Radial Leaded, F Series, +80%, -20%
14	EECF5R5U105 - Supercapacitor, EDLC, 1 F, 5.5 V, Radial Leaded, NF Series, +80%, -20%
15	EECSOHD334H - Supercapacitor, EDLC, 0.33 F, 5.5 V, Radial Leaded, SD Series, $\pm$ 30%
16	EECHZOE335 - Supercapacitor, EDLC, 3.3 F, 2.5 V, Radial Leaded, HZ Series, +40%, -20%
17	EECSOHD224H- Supercapacitor, EDLC, 0.22 F, 5.5 V, Radial Leaded, SD Series, +80%, -20%
18	Trainer Kit with Schneider PLC TM221CE24T w/ programming cable
19	TP-Link TL-WR841N 300Mbps Wireless-N Router
20	Signal Processing Board - TMDSDSK6713 - DSP Starter Kit
21	BIPOLAR STEPPER MOTOR 2.8A, 24-42VDC
22	DC Motor 24V - 100W
23	PMAC Motor 1HP
24	BLDC Motor - 58 F- 1Hp
25	EAWOJ-B24-AE0128L ENCODER, ROTARY, 128POS, 8 BIT
26	61C22-01-04-02 - Incremental Rotary Encoder, Optical, With Pushbutton, 16.6rpm, 22 Detents, 5 VDC, Quadrature
27	NI 9381, 0-5V, 8-Ch AI, 8-Ch AO, 4-Ch LVTTTL DIO, C Series Module
28	NI 9923 Front-mount terminal block for 37-pin D-Sub Modules
29	NI 9211 4-Ch $\hat{A}\pm 80$ mV, 14 S/s, 24-Bit TC and Diff AI
30	CRIO-9932 Backshell with 10-Pos Connector Block
31	NI 9403 with DSUB 32 Ch, TTL Digital Input/Output Module
32	CRIO-9030 CompactRIO Controller, 1.33 GHz Dual-Core, 4-Slot, Kintex-7 70T FPGA, -20 A°C to 55 A°C
33	E1 Ethernet Cable. Twisted-pair, 1M
34	NI PS-10 Desktop Power Supply 24 VDC, 5A, 100-120/200-240 VAC
35	NI 9981, 4-pos Gold Power Supply Plugs (Qty 5)
36	NI Standard Service Program for Hardware
37	Analog Discovery 2
38	Arduino Starter Kit
39	Bluetooth Transceiver Module with TTL Outputs-HC05
40	Camera Assembly Kit
41	UART GPS Module, u-blox NEO-6M onboard
42	Intel® Edison and Arduino Breakout Kit
43	Intel Galileo Gen 2 Development Board
44	Intel Genuino 101
45	LittleBits SMART HOME KIT
46	ChromeBox MiniPC
47	RQ-HUNO Robotic Humanoid Kit
48	Raspberry PI - 3(Kit)
49	SANYO AM-1417 Solar Cell
50	KXOB22-01X8F Solar Cell

51	Black + Decker CD121K50 12-Volt Cordless Drill/Driver
52	Makita MLT100
53	Single Lead Heart Rate Monitor - AD8232 - Kit
54	Grove-Finger-clip Heart Rate Sensor with Shell
55	NTC Thermistor - 10K - MA300TA103C
56	ADS1292R ECG/RESPIRATION BREAKOUT KIT
57	MQ-3 Alcohol Ethanol Gas Sensor Module
58	MyoWare Muscle Sensor
59	Three Axis Accelerometer and Gyroscope - MPU 6050 breakout board
60	Adafruit BMP280 12C or SPI Barometric Pressure & Altitude Sensor
61	SparkFun Humidity and Temperature Sensor Breakout - SHT 15
62	MPL3115A2 - 12C Barometric Pressure/Altitude/Temperature Sensor
63	SparkFun Luminosity Sensor Breakout - TSL2561
64	ams IAQ-COREC- VOC
65	Grove - Multichannel Gas Sensor
66	PM2.5 Sensor Module - Laser Sensing
67	Digital Infrared Temperature Sensor MLX90615 GY-90615 Module
68	Sharp GP2Y0A21YKOF Analog Distance Sensor 10-80cm
69	Optomax Digital Liquid Level Sensor - LLC200D3SH-LLPK1
70	Liquid Flow Meter - Plastic 1/2" NPS Threaded
71	Load Cell - 120kg - RSL601AC
72	Weighing Sensor Module - HX711
73	Triple Axis Magnetometer Breakout MAG3110
74	LM393 Tilt Sensor Module
75	pH Kit
76	HS110 Hygrometer Humidity Sensitivity sensor
77	Vibration Sensor Module - SW-420
78	DJI GO Drone

### **List of Projects and Components Utilized from the Design Lab Kit in 2018-19**

<b>Sr. No.</b>	<b>Name of the Project</b>	<b>Description of Project</b>	<b>List of Components Utilized (From the Design Lab Kit) For this Project</b>
1	GUI Based Over current Relay	To protect the electrical devices during faulty condition under GUI.	Raspberry PI – 3 Kit Arduino Starter Kit
2	Remote Monitoring of Water Use and control of water wastage.	To monitor usage of water and reduce wastage.	Arduino Starter Kit Flow sensor

3	Automated 5 DoF Robotic Arm Mechanism.	Robotic arms are used to implement complex industrial automation functionality which only humans can achieve.	RQ-HUNO Robotic Humanoid kit Arduino Starter Kit
4	Investigate effect of weld parameters on weld joints in TIG by SOLDAMATIC simulator	Optical Analysis of the weld joint contour and defects.	Thermal Camera for Product Inspection - TG165

### **List of Projects and Components Utilized from the Design Lab Kit in 2019-20**

<b>Sr. No</b>	<b>Name of the Project</b>	<b>Objective of Project</b>	<b>List of Components Utilized (From the Design Lab Kit) For this Project</b>
1	Energy Usage monitoring Using Labview	To continuously observe the operating voltage and current of the system and trip the circuit if the system exceeds a safe value	CIRO-9030 Compact Controller NI 9223 Module
2	Auto Cut Off Of 20 Hp Submersible Pump Based On Water Level In GEC, Palanpur	To design a system which will serve two functions of saving electricity and water	Arduino Starter Kit Multi meter
3	Energy Monitoring System	For monitoring of faulty equipment which was consuming more energy	Arduino Starter Kit Multi meter
4	Chainless Bicycle	To implement the chainless transmission to the bicycle to overcome the various disadvantages of chain drive.	MyoWare Muscle Sensor
5	Rough Terrain Robot Using Rocker Bogie Mechanism	This mechanism can climb obstacles like rocks which are more than twice or three times the diameter of the wheels while the all six wheels are touching the ground and the design of the differential, which keeps the rover body balanced, enabling it to rock up or down depending on the various positions of the multiple wheels.	RQ-HUNO Robotic Humanoid kit

**List of Projects and Components Utilized from the Design Lab Kit in  
2020-21**

<b>Sr. No</b>	<b>Name of the Project</b>	<b>Objective of Project</b>	<b>List of Components Utilized (From the Design Lab Kit) For this Project</b>
1	Automatic irrigation system using arduino mega	to reduce this manual involvement by the farmer by using an automated irrigation system which purpose is to enhance water use for agricultural crops	Arduino Starter Kit Multi meter,DSO

**List of Projects and Components Utilized from the Design Lab Kit in  
2021-22**

<b>Sr. No</b>	<b>Name of the Project</b>
1	IOT Based Wireless Notice Board
2	Wireless Robotic Arm Control With Mecanum Wheel
3	Wireless Red Signal Alerting For Trains
4	Smart anti suicide fan

## **ALUMNI ASSOCIATION**



# ALUMNI ASSOCIATION

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## (1) FORMATION OF “ALUMNI ASSOCIATION”

The “Alumni Association” of the institute has been formulated initially with seven members, and it has been registered at the Office of the Charity Commissioner, Banaskantha District on February 19, 2020.

## (2) “ALUMNI ASSOCIATION” OBJECTIVES

- To provide/develop variety of structural facilities for the educational and overall development of the institute by strengthening the association of the alumni with the existing students and officers/faculty/staff/teachers of the institute.
- To allow the alumni to participate in activities that would contribute to the general development of the Institute and Society.
- To create employment opportunities for the existing students and alumni of the institute.
- To provide scholarships facility to meritorious needy students.
- To give prize/award to the existing students of the institute for their achievements.
- To provide financial supports to the existing students and faculties of the institute to participate in various national and international academic events such as conferences, workshops, technical symposium, etc.
- To organize variety of event for the welfare of alumni of the institute.
- To contribute in the scientific and technical development of the national and world by organizing various activities in association with the alumni of the institute.
- To provide guidance about the knowledge and career development for the existing students and alumni of the institute by organizing institute/state/national level technical/non-technical symposium.
- To acquire/purchase/own/rent/lease the movable or immovable properties (anywhere) to fulfil the objectives of the alumni association.
- To optimally and effectively manage the collected fund as well as to partially/fully invest the reserve fund for its monetary benefits.
- To organize various activities which allows to develop entrepreneurship in the students so that they can contribute to technological innovations.
- To strengthen institute-industry association.

- To do such other lawful things/activities (planned/unplanned) as are conducive or incidental to the attainment of the above objectives and/or beneficial to the interests of the Institute, existing students and its alumni.

### **(3) “ALUMNI ASSOCIATION” FUNCTION**

It has been decided to arrange the first “Alumni Meet” of the institute in 2023 for the 2013 Graduated Students, as they complete 10 years of graduation.



**When we think we know,  
we cease to learn.**

*Dr. Sarvepalli Radhakrishnan*

## VISION

"To be a leading technical institute facilitating transformation of human resources into socially responsible engineering professionals for sustainable development"



## MISSION

- (1) To achieve academic excellence by developing state-of-the-art laboratories and academic infrastructure.
- (2) To create an ecosystem that promote value based technical education, innovation and entrepreneurship for sustainable development.
- (3) To contribute to industry and society by providing technical and consultancy services.
- (4) To enhance technical competencies of human resources by providing need base trainings and quality improvement programs.

# GOVERNMENT ENGINEERING COLLEGE

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