ACADEMIC YEAR

2020-21

AT A GLANCE

GOVERNMENT ENGINEERING COLLEGE

PALANPUR

INDEX

VISION AND MISSION

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.

MESSAGE OF THE PRINCIPAL

Welcome you all,

I hope you are in good health and spirits!

According to the World Economic Forum Education and Skills, Urbanization, Health, Sanitation, Gender, Water Crisis and Transparency have been the key challenges of India. India may already be the world's third-largest economy on purchasing power parity, but it ranks only 58th out of 148 countries in the World Economic Forum's Global Competitiveness Index, indicating that there is greater potential waiting to be unlocked. Almost a year in the pandemic, the public health situation in many places of the country is more acute than ever. In addition, a highly contagious strain of the virus has emerged recently. The total number of new confirmed cases has been reaching new heights almost every day. The numbers of peoples losing their lives are multiples, leaving behind trauma and deep scars in the social fabric of the nation. While the case number has been escalating, several different vaccines have been approved and its distribution in growing number has been enabled by the government. India is aiming for 300 million people to be vaccinated by August this year.

We, at Government Engineering College, Palanpur, are constantly working towards ensuring quality education and promoting Covid appropriate behaviour to defeat this unprecedented pandemic. As the world stays secured behind closed doors during COVID-19 lockdowns and self quarantine, work from home and online classes have become a new norm for us. Use of electronic media and online platforms for delivering online lectures, virtual experiments and online assessment has been part and parcel of our lives. Hundreds of students are getting quality education in online mode regularly to meet the challenges. One of our faculties, Prof. Yogesh Chauhan from Civil Department has been recognized and appreciated by Director Higher Education for "Excellent Performance in Online Education" during COVID-19 pandemic which shows our tremendous effort in imparting quality online education. Almost all faculties are engaged with SSIP projects, research work, virtual seminars and conferences and other faculty development programmes for their professional development and step-towards academic excellence.

I on behalf of all at GEC, Palanpur express heartfelt gratitude to all stakeholders and take a pledge to provide quality education and ensure all round development of our students now and ever. What we all need now is patience, optimism, resilience and firm faith in God Almighty. While we stay home during this extended COVID – 19 partiallockdown, it's a good time to read books and expand your knowledge. We too must rise to meet this formidable challenge bravely and shouldn't let the pandemic pin us down. We must remain positive and keep our hope alive that very soon mankind will be able to find a way out of this difficult situation in near future. As you know, there already exists a student counselling in the college to help students andaddressacademic, psychological and other concerns. You are free to contact thecounsellor and if needed you are most welcome to send your questions, queries, problems or suggestions at my official email address.

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.

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, Eastablised 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 on 18th -19th March, 2021. 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,

Prof. P C Vasani

ACADEMIC EXCELLENCE

ACADEMIC EXCELLENCE

A. SSIP

Activities Summary:

Year 2020-21	
PoC Supported Under SSIP	5
Total Student Sensitized	672
Work Shop / Seminar Arranged	3

List of PoC Supported:

List of PoC Supported Under SSIP in the year of 2020-21		
PoC Title	**Mentor**	**Sanctioned**
Solar Panel Cleaning Module	Prof. M. K. Patel	100000
Student Attendance System	Prof. M. K. Patel	52000
Development of an Autonomous Seed Bombing Drone	Prof. N. A. Patel	186500
Development of Double passed Solar Dryer Integrated with	Prof. V. D. Patel	122600
Swachh Bharat Abhiyan (S. B. A.) Reverse Vending Machine	Prof. A. D. Patel	85000

Webinar Details:

“How to Start Startup?” – Webinar

Expert: Mr. Nirav Vasoya, Founder, Eternity Power Solution Pvt. Ltd.

Date: 17 October 2020

Time: 2.00 pm Onwards

“How to start Business through SSIP "-Webinar, SSIP, Octomber 2020.

Expert: Dr. S. K. Patel, Principal, Swami Sachchinand Polytechnic College, Visnagar

Date: 19 October 2020

Time: 2.00 pm Onwards

“Begin with an Entrepreneurial Mindset "-Webinar, SSIP, Octomber 2020.

Expert: Mr. Nirav Patel, Project Coordinator, SSIP Cell, GKS, Gandhinagar

Date: 22 October 2020

Time: 10.30am Onwards

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	http://nptel.ac.in/	Video lectures
2.	Civil	https://ocw.mit.edu/courses/civil-and-environmental-engineering/	Teaching materials used in classrooms
3.	Civil	https://www.vlab.co.in/	Virtual Laboratory Experiments
4.	Civil	https://classroom.google.com/	Teaching materials used in classrooms
5.	Civil	https://www.youtube.com	Video lectures & Laboratory Experiments
6.	Electrical	http://nptel.ac.in/ (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	http://nptel.ac.in/ (NPTEL)	Video Lectures
13.	Mechanical	http://vlabs.iitb.ac.in/vlab/	Laboratory Experiments
14.	Mechanical	https://sites.google.com/view/napatelgec/	Class notes, assignments, tutorials
15.	Mechanical	http://ocw.mit.edu/	Teaching materials used in classrooms
16.	Mechanical	http://nptel.ac.in/	Video lectures
17.	Mining	http://nptel.ac.in/	Video lectures, Teaching materials used in classrooms
18.	Mining	Slideshare.net	Teaching materials used in classrooms
19.	Mining	https://drive.google.com/drive/my-drive	Lecture notes, Assignments, Study material
20.	Mining	http://vlabs.iitkgp.ac.in/vlt/project.html	Practical/Lab

C. Major laboratories with major equipments photos and brief description

CIVIL ENGINEERING DEPARTMENT

Surveying Lab

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 1st, 2nd & 4th semester for the courses Basic Civil Engineering (3110004) & Surveying (3140601).

Major Equipments:

Total Station

Electronic Theodolite

Digital Plannimeter

Plane Table

Transit Vernier Theodolite

Automatic Level

Dumpy & Tilting Level

Prismatic & Surveyor Compass

Building Construction Lab/Model Room

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.

Environment Engg. Lab

Environmental engineering is a professional engineering discipline and also a branch of civil engineering. In the civil engineering

	Side, it is useful for different infrastructure facilities like water infrastructure, Wastewater infrastructure, Solid waste management etc. 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. This different equipment is mostly useful for measurement of characteristics of water and waste water.
Transportation Engineering Lab 	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 & Fire Test Apparatus, Viscometer and Bitumen Extractor etc. The following are the list of Practicals to be performed in the laboratory.
Computer Lab 	Computer Laboratory is having the capacity of 30 computers with separate students' individual interactions to give through understanding of the course of Computer Programming & Utilization. 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
Concrete Technology Lab	Department has well-equipped laboratories pertaining to Concrete Technology. The Concrete Technology Laboratory is located on

	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. Major Equipments: Concrete Mixer Compression Testing Machine (300T) Flexure testing machine Mortar Mixer Motorised sieve shaker Slump Test Apparatus Rebound Hammer Hot Air Ovens
Mechanics of Solids Lab 	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. Major Equipments: Universal Testing Machine (100T) Rockwell cum Brinell Hardness Testing Machine Izod Impact Testing Machine Friction Slide Apparatus Wheel &Differential Axle Compound Lever Apparatus Moment of Inertia Flywheel, etc.
Geotechnical Engineering Lab	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

	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 Thrree 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 3rd and 5th semester for the courses Circuits and Network and Control System Engineering respectively.

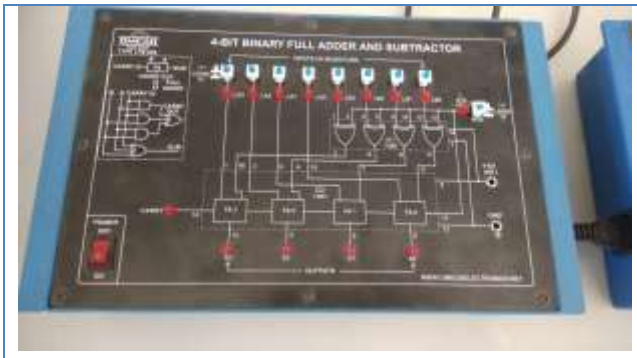
This laboratory allows student to Understanding and predicting system behavior and solve complex network using different techniques.

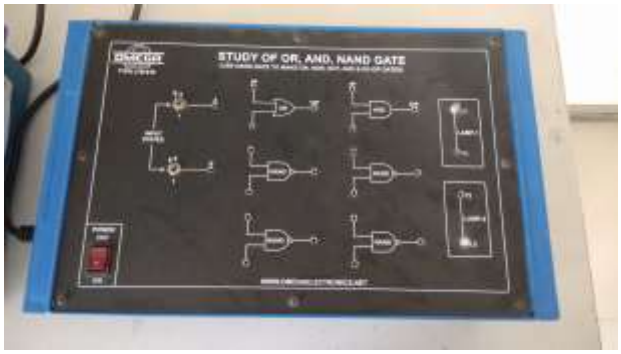
Major Equipments:

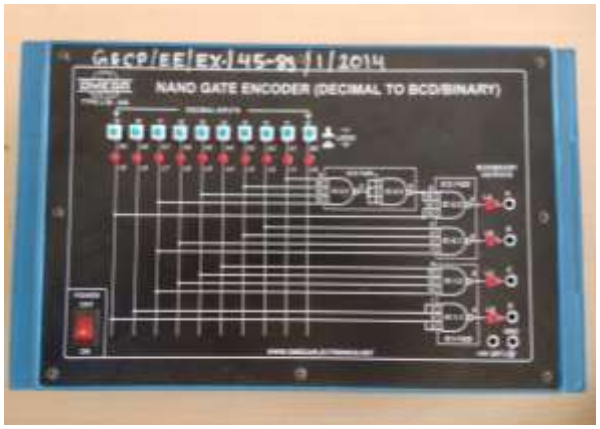
1. Verification of laws and network theorems
2. Two Port Networks Trainer kit
3. Time Response of First and Second order Control system
4. Proportional, Proportional integral and Proportional Derivative Control kit.
5. Type-1 and Type-2 System Test Kit.
6. Open loop and Closed loop control system Test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

Digital electronics Lab

Digital Electronics Lab facilities are located in







the first floor of Electrical block. This laboratory facilitate the students of 4th 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 4th, 5th, 7th and 8th 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

	students) 2. MATLAB Software The purchase procedure for many more equipment related to the above courses is also initiated.
Basic & Power Electronics Lab 	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 : To provide students engineering skills by way of breadboard circuit design with electronic devices and components. 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. 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. Major Equipments: 1. IGBT Characteristics trainer 2. 30 MHZ D.S.O. 3. Function Generator 4. AC Chopper 5. Step Up Chopper 6. Jone's chopper
Electrical Measurement Lab 	The Measurementlaboratory facilitates the students of 3rd and 7th 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

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 3rd 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 folly 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 enfgineering lab is located in ground floor of Electrical Block. This laboratory facilitates the students 6th 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 4th 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 facilitates are utilized by the students of 3rd,4th,7th and 8thsemester 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 6th and 8th 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.

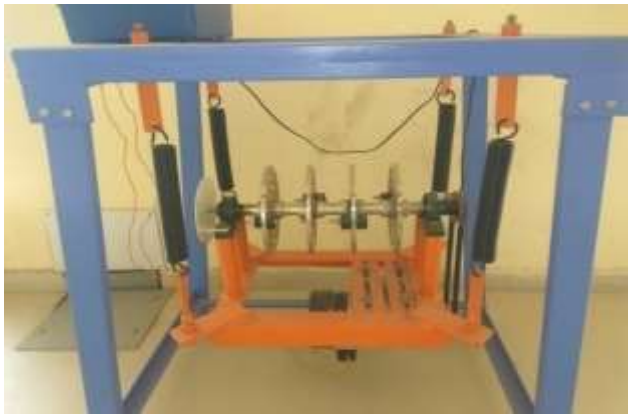
Major Equipments:

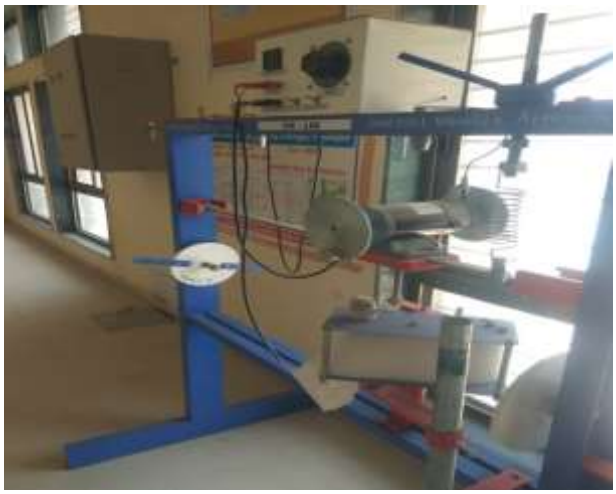
1. Cut sectional single cylinder four stroke diesel engine
2. Cut section of four-wheel drive with differential & rear axle.
3. Cut section of four cylinder four stroke petrol engine.
4. Cut sectional two stroke single cylinder petrol engine

During each academic year total 15 experiments are conducted in this laboratory. This laboratory gives great exposer 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 laboratoriesinclude 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 Equipment's 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 gairn 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	DC Motors for Starter in Cars 	1	12 V, 1.4 KW DC Motor
2	Radiator Motor , Cooling Fan Assembly 	1	12 V, 1.4 KW DC Motor

E. Major projects/Minor projects

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1	Flexible pavement design using IIT Pave Software	Prof. H. U. Patel
2	Effect of Glass sand as a replacement of natural river sand on High Strength Self Compacting Concrete (HSSCC)	Prof. Y. J. Chauhan
3	Seismic Analysis of Steel & RCC Moment Frames using Nonlinear Time History Analysis (THA)	Prof. (Dr.) Vijay. R. Sharma
4	Feasibility of BRTS at Palanpur	Prof. H. U. Patel
5	RCC Design Checking, Estimation, Supervision of School Building	Prof. P. C. Vasani
6	Design of Intze tank using Staad Pro	Prof. (Dr.) G. M. Savaliya
7	Smart Village Planning	Pro. S. G. Chauhan
8	Nonlinear Time History Analysis Of G+23 Building with shear wall and fluid viscous damper In Etabs.	Prof. Y. J. Chauhan
9	Hostel Planning	Prof. S. G. Chauhan
10	Effect of Steatite powder as a partial replacement of natural river sand on High Strength Self Compacting Concrete (HSSCC)	Prof. Y. J. Chauhan
11	Vishwakarma Yojana Project Phase-VIII	Prof. (Dr.) G. M. Savaliya

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1	Modeling and Simulation of Short Transmission Line	Dr. A. M. Patel
2	Simulation of Single phase Supply to Three Phase Supply Converter	Prof. M. G. Prajapati
3	Solar Vehicle	Prof. H. V. Hirvaniya
4	Development of web based Portal and database management of students for an institute.	Prof. M. K. Patel
5	To simulate a lighting design using dialux	Prof H. N. Chaudhari
6	24-hour Simulation of a Vehicle-to-Grid (V2G) System Using Matlab	Dr. A. M. Patel
7	Load Flow and Short Circuit Analysis Using Power World Simulator	Prof. J. H. Patel

Sr. No.	Project Title	Name Of Guide
8	Design and simulation of bldc motor controller	Prof. H. V. Hirvaniya
9	Design and Simulation of Multilevel Inverter for Induction Motor Drive	Prof. M. G. Prajapati
10	Partial Shading of a PV Module Using Matlab	Prof H. N. Chaudhari
11	Design and Simulation of PWM Controlled Rectifier	Prof. B. R. Patel
12	MATLAB GUI Based hardware simulation of dc motor speed control analysis.	Prof. M. K. Patel
13	Speed Control of Brush-less DC motor	Prof. K. G. Prajapati
14	Relay Coordination of Over Current Relay using ETAP	Prof. J. H. Patel
15	Robotic Arm using Arduino	Prof. K. G. Prajapati

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide
1	Hybrid electrical vehicle	Mr.Patel Ashvinkumar Dahyabhai
2	Development of double passed solar dryer integrated with pcm	Mr.Patel Vijaykumar
3	Solar covid kiosk	Mr.Patel Alpeshkumar
4	Design and development of shell and tube type heat exchanger for solar energy storage using pcm	Mr.Patel Vijaykumar Dasharathbhai
5	360 degree flexible drilling machine.	Mr.Patel Narendrakumar Amrutlal
6	Contactless electromagnetic braking system	Mr.Boka Pradeepkumar
7	Product development of groove cutting machine with multi cutting off wheels	Mr.Patel Ashvinkumar Dahyabhai
8	Solar disinfection and sanitization tunnel with ultra violet ray	Mr. Raval Nileshkumar
9	Development of drilling machine attechmant for milling operation	Mr.Patel Narendrakumar Amrutlal
10	Levitating frictionless vertical windmill	Mr.Boka Pradeepkumar
11	Design and fabrication of solar desalination	Mr. Shyam k dabhi
12	Design , development and manufacturing of socket for easy	Mrs. Vaishali k patel
13	Mathematical modeling of magnetic abrasives finishing process	Mr.Chaudhari Ashokkumar Ramjibhai
14	Experimentation of maf to finish ss 420 using response surface	Mr.Chaudhari
15	Design & analysis of bar banding machine	Mr.Patel Anandkumar Kanubhai

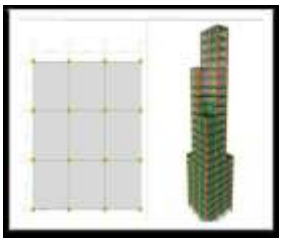
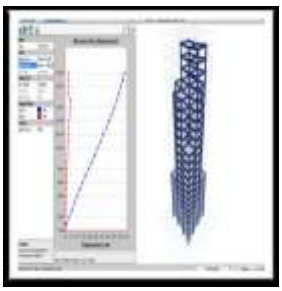
MINING ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide
1	Study of Baseline Environmental Monitoring in Surface Mine	Suraj Kumar
2	Study of the possibilities of utilizing industrial solid wastes and fly ash	J.V. Modi
3	Testing of Mine Water	Suraj Kumar
4	Multi-Gas detector Module	J.V. Modi

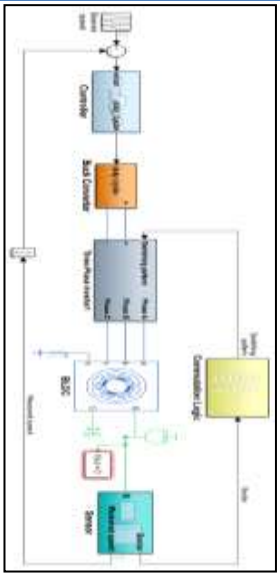
F. Best Three Major/Minor Projects (With Abstract and Photos)

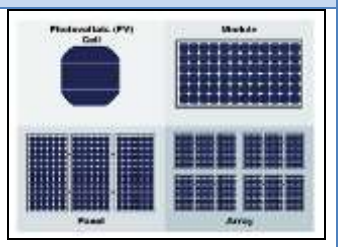
CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide	Abstract	Photoes
1	Effect of Glass sand as a replacement of natural river sand on High Strength Self Compacting Concrete (HSSCC)	Prof. Y. J. Chauhan	The construction industry today is hence facing a major challenge of developing concrete which not only has the ample strength and durability but also meets the project specific requirements. The vertical increase in the structure results in congested reinforcement necessitating concrete which can easily pass through the space between the reinforcement. Hence special concrete suiting specific requirements on the site are becoming popular. Some special concrete needs the ability to flow, pass through small spaces and at the same time should be able to detour through the congested spaces in the structural elements. With the intention of improving both environmental and economical sustainability, this study is intended to develop High Strength Self-Compacting Concrete (HSSCC) by replacing natural river sand with Glass Sand in dosages of 20%, 40%, 60%, 80% and 100% and examine the properties of HSSCC in fresh and hardened state.	  

2	EFFECT OF STEATITE POWERED AS A PARTIAL REPLACEMENT OF CEMENT ON HSSCC	Prof. Y. J. Chauhan	The tests were conducted on specimens with 5%, 10%, 15%, 20%, and 25% of replacement of UFNSP (ULTRAFINE NATURAL STEATITE POWDER) to the weight of cement and compared to the control specimens. The flow properties of all specimens were tested and checked for their limit with the existing guidelines. The Mechanical Property tests at 7 days, 28 days and durability property are also observed for checking the feasibility of Steatite Powder & Partial replacement of cement in concrete.	
3	Nonlinear Time History Analysis Of G+23 Building with shear wall and fluid viscous damper In Etabs.	Prof. Y. J. Chauhan	Nonlinear time history analysis is known for simulating structure behavior under severe earthquakes more properly than other methods. However for simplicity, most of the bridges in the category of Ordinary Standard Bridge (OSB) are being analyzed by a combined procedure which consists of a linear ARS analysis for earthquake response (demand) and a static nonlinear pushover for ultimate displacement (capacity) per the guidelines of many transportation agencies worldwide.	 

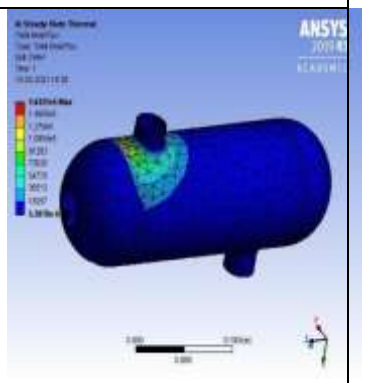
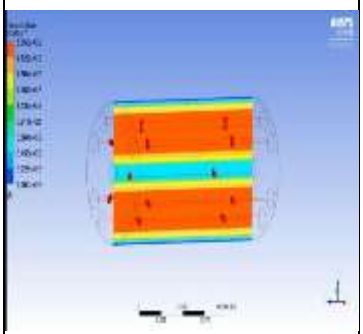
ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
1	SOLAR VEHICLE	Prof. H. V. Hirvaniya	One of the front runners in the area of renewable energy resources today is solar power. Photovoltaic cells are used to convert solar energy in to useful electrical energy. The objective of this paper is to construct an efficient solar car, for the daily office commuters of the India so that they can travel a fixed distance that they need to commute everyday on a reliable and economical car that essentially runs on free renewable solar energy. All calculations would be made bearing in mind the maximum distance travelled by Indian office commuter i.e. from Home to Office since overcoming this distance would be the primary objective of the solar car to be built. The Paper illustrates the calculation of the motor rating as well as battery calculations and the brief description about the work completed in SOLAR VEHICAL and the background of the solar car as well asthe problem associated with our Domain.	
2	Design and simulation of bldc motor controller	Prof. H. V. Hirvaniya	Brushless DC Motor are used in variety of industrial application like traction drive, e-vehicle application, electronic industries etc. It has many merits over its demerits like higher efficiency, high starting and rotating torque, less noise, its compact design. All these factors play a vital role in the expansion of field of application of the motor. And as the controllers are required to control its work, understanding the necessity of the controller we are planning to work on the designing process of the controller for BLDC motor and analyse it. This report consist of data of task performed during the study of Design and Simulation of BLDC motor controller.	

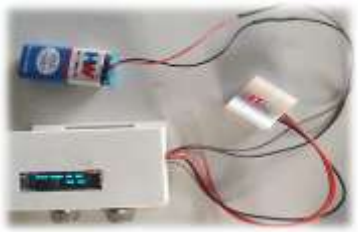
Sr. No.	Project Title	Name Of Guide	Abstract	Photos
3	Partial Shading of a PV Module Using Matlab	Prof H. N. Chaudhari	This project presents the design and simulation of partial shading of PV module using MATLAB. Due to building, towers, dirt, passage of clouds PV modules get shadowed completely and partially. Modules in the array subjected to different levels of insulation. Due to shading of PV module current will decrease and result in mismatch in p-v and v-I characteristics and efficiency decrease. We are going to study this phenomenon using MATLAB.	

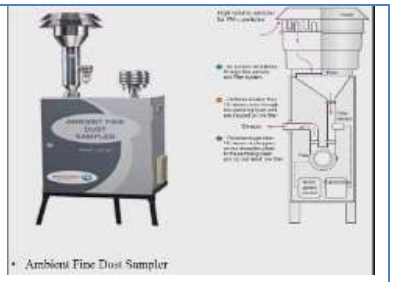
MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
1	DESIGN , DEVELOPMENT AND MANUFACTURING OF SOCKET FOR EASY MOUNTING OF CEILING FAN	Mrs. Vaishalik patel	The main objective of the project is to design, development and manufacturing of socket for easy mounting of ceiling fan . In case of ceiling fan we observe that the installation and un-installation is time consuming and some time difficult. When the installation of fan in new house the workers are not available easily. So most of people can't do itself (installation and un-installation). Thus we design and development of ceiling fan socket. Our main purpose is that , the installation and un-installation of ceiling fan is to do as easy as possible.	 
2	HYBRID ELECTRICAL VEHICLE	Mr.Patel Ashvinkumar Dahyabhai	An environment pollution and its side effect increased day by day and price of fluid increases without any limits, so that we must find out some solution of this problem.Here we have one alternate solution of these such a complicated problem. None Renewable energy is not reused and costly, so we will have to	

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
			found a energy source which is Renewable does not pollute environment easy to available and less costly.So solving a problem of environment pollution, fuel price, vehicle price, and reusable fuel we found a alternate of fossil fuel we use solar, wind converted into electric energy and utilised these energy has fuel of our vehicle,So that we design a vehicle which working on electric energy and paddle power simultaneously and we give this invention name ‘’HYBRID ELECTRIC VEHICLE’’	
3	DESIGN AND DEVELOPMENT OF SHELL AND TUBE TYPE HEAT EXCHANGER FOR SOLAR ENERGY STORAGE USING PCM	Mr.Patel Vijaykumar Dasharathbhai	In this project we have focused on the development of a shell and tube type heat storage system for solar dryer or for any drying purpose. Research on solar drying explains that the drying air temperature in the dryer is not uniform and it fluctuates widely throughout the day and drying of food is not possible during late evening hours or non-sunshine hours. The reliability and working hours of conventional dryer could be improved with the help of heat storage system.so we are designing a shell and tube heat exchanger for storing solar energy by using PCM so that effective utilization can be taken.	 

MINING ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide	Abstract	Photos
1.	Multi-Gas detector Module	J.V.Modi	Gas in a monitored area is centralized and conveyed to an underground place or a place on the ground in a way of positive pressure conveying to be subjected to centralized detection on the components and the concentration of the gas by the system. The detection result is accurate and reliable. The system is applicable to analysis and detection on coal spontaneous combustion of a coal mine, fire ignition due to external heat of the mine and the toxic and harmful gas in the mine, and is also applicable to the analysis and detection of a fire disaster and the toxic and harmful gas in a metal mine.	 
2.	Study of Baseline Environmental Monitoring in Surface Mine	Suraj Kumar	The aim of study of baseline environmental monitoring in surface mine is to measure the environmental effect and identify impact with equipment used for it. Also baseline environmental monitoring takes the responsibilities of environmental management as required for planning and implementation of the project. The purpose of the monitoring is to ensure that no impact is in excess of standard, to check the prediction made in EIA and to facilitate identification of any unidentified impacts and make provisions for mitigation. A monitoring mechanism is required to effectively implement and monitor	

			environmental management plans. This will ensure proper implementation of mitigation measures proposed and also effect mid-course corrections, if required. Monitoring is required during construction (pre-mining), operation (mining) and restoration (post-mining) phases.	
3	Study of the possibilities of utilizing industrial solid wastes and fly ash	J.V.Modi	Back filling of mine voids is mandatory to avoid subsequent ground stability problems in the form of subsidence. Mill tailings and river sand have been extensively used since a long time as mine backfilling materials. The need to develop alternative engineering material which can substitute sand has gained prominence. Large quantities of fly ash discharged from coal-fired power stations are a major problem not only in terms of scarcity of land available for its disposal, but also in psychology as well as environmental aspects. However, the addition of fly ash to cement is limited because the production rate of cement is limited, and also the concentration of fly ash in cement is limited. Significant increases in the compressive strength were obtained after 28 days of curing time and it was observed that the fly-ash composite developed has potential to be used as substitute to sand for backfilling the mine voids.	

G. List of IDPS

Due to Covid-19 pendamic, it is not possible to allot the IDPs

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

CIVIL ENGINEERING DEPARTMENT

Name of Faculty	Using PPT? Yes/No	Using Videos? Yes/No	Using Animations? Yes/No	Using Software	Any Other Methodology
P. C. VASANI	Yes	Yes	Yes	MS Team	No
V. R. SHARMA	Yes	Yes	Yes	MS Team	No
Dr. G. M. SAVALIYA	Yes	Yes	Yes	MS Team	No
H. U. PATEL	Yes	Yes	Yes	MS Team	No
V. H. KHOKHANI	Yes	Yes	Yes	MS Team	No
S. G. CHAUHAN	Yes	Yes	Yes	MS Team	No
Y. J. CHAUHAN	Yes	Yes	Yes	MS Team	No
N. R. KOTIYA	Yes	Yes	Yes	MS Team	No
R. K. RATHOD	Yes	Yes	Yes	MS Team	No
M. N. PRAJAPATI	Yes	Yes	Yes	MS Team	No

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Teaching-Learning Tool Used	Name of Course and Semester	Teaching-Learning Tool Used	Details
1	MS Teams	PS-I-4th sem, PS-II-5th sem WSE-6th sem SGP-7th sem PSPD- 8th sem	Graphics Tablet	The virtual theory and practical classes, Counselling/mentoring classes, and remedial classes have been effectively conducted through MS Teams.
2	MS Teams	EM II-5th sem IPS- 6th sem EED-6th sem EMMI-6th sem EED- 6th sem IPS-7th sem	Microsoft White Board	Online Lecture and Laboratory on MS Team
3	MS Teams	BEE-1st sem ADE-3rd sem IC-3rd sem	Graphics Tablet	Online Lecture and Laboratory on MS Team

Sr. No.	Teaching-Learning Tool Used	Name of Course and Semester	Teaching-Learning Tool Used	Details
		EM-4th sem PET-5th sem ED-6th sem		
4	MS Teams	PYP- 5th sem	Online Python Simulator	Python Simulator is used to test and debug the code online simultaneously student can work on the code
5	MS Teams	PSOC- 8th Sem.	Flipped Classroom	Sharing of recorded Lectures/Lecture Notes for self learning. Assessment/Doubt Solving is done for students.
6	MS Teams	EM II-5th sem BEE- 1st sem	Home made mobile camera stand	To effectively conduct Online Lecture and Laboratory on MS Team

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related Course	Class	Name of Staff
1	Case Study Base Tecahing	Computer Aided Manufacturing	VII	Prof. N. A. PATEL
2	Seminar topics were given to group of students and students have delivered via power point presentation	Machine Design	VII	Prof. A. D. PATEL
3	Course module wise NPTEL video lectures link is shared with student after completion of module for revision and indepth self learing.	Applied Thermodynamics	VI	Prof.S.K.Dabhi
4	Case Study for Automation	Computer Aided Manufacturing	VI	Prof. N. A. PATEL
5	Seminar topics were given to students and students have delivered via power point presentation	Automobile Engineering	VIII	Prof. A. D. PATEL
6	Seminar topics were given to students and students have delivered via power point presentation	Automobile Engineering	VI	Prof. A. D. PATEL

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	Course	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	VIII	MPDS	Yes	Yes	No	No
Suraj Kumar	VII	RF	Yes	Yes	Yes	No

I. Innovative Assessment Methodologies

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related course	Class	Name of staff
1	Online Classes conducted through online platforms such as Zoom, Cisco Webex, Google Meet, Google Duo, etc during Covid-19 Lockdown	All current courses	All Sem	All Staffs
2	Online Exams conducted through online platforms such as Google Classroom, Google Duo, etc during Covid-19 Lockdown	All current courses	All Sem	All Staffs
3	Progressive Assessment with Rubrics based Evaluation	All current courses	All Sem	All Staffs

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related course	Class	Name of staff
1	Progressive Assessment	BE, ECA, ADE, PE, EMAT, PQM	2^{nd}, 3^{rd}, 3^{rd}, 4^{th}, 6^{th} and 7^{th} Semester Classes	Prof. B.R.Patel
2	Progressive Assessment	PS-I, SGP, PS-II, PSPD, WSE	4th, 5^{th}, 6^{th}, 7^{th} and 8^{th} Semester Classes	Dr. A. M. Patel
3	Rubrics based Evaluation	PS-I, SGP, PS-II, PSPD, WSE	4th, 5^{th}, 6^{th}, 7^{th} and 8^{th} Semester Classes	Dr. A. M. Patel
4	Progressive Assessment	BEE, ADE, IC, EM, PET, ED	1^{st}, 3^{rd}, 4^{th}, 5^{th} and 6^{th} Semester Classes	Prof. H N Chaudhari

5	Project Bases Learning	MMI	6th EE	Prof. H. V. Hirvaniya
6	Continuous Evaluation	EM II, EMMI EED,IPS	5th, 6th, 6th and 7th Semester Classes	Prof. K. G. Prajapati
8	Progressive Assessment	BEE, BE, EM I, EM II, II, TCEE	1st, 2nd, 4th, 5th, 7th and 8th Semester Classes	Prof. M. G. Prajapati
9	Online Teaching through Team Microsoft/Progressive Assessment	PYP, MMI, PSOC	5th, 6th and 7th Semester Classes	Prof. M.K.Patel
10	Online Teaching through Team Microsoft/Progressive Assessment	PS-1, EMMI, PSOC	4th, 5thand 7th Semester Classes	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 course	Class	Name of staff
1	Presentation method by Students and Quiz	Geology-I & II	Semester 3 & 4	Prof. H.B Patel
1	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
2	Presentation method by Students, Question answering method, Discussion Method	Chemistry	1st Mech/Civil/Elect/Mining & 2nd Mining	Prof. C.G.Prajapati

4	Presentation method by Students, Question answering method, Discussion Method, Model Prepared.	Underground Metal Mining	6th Semester	J. V. Modi
5	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

J. Students Interaction with Outside World

Participation in State Level Project Competetion: National Seminar: Conference

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
1	"UltraTech Sparkling Star 2021" Inter College Power Point Presentation Contest	10th & 26th March 2021	Sankalchand Patel College of Engineering, Visnagar, Mehsana / Online Mode	1. Chaudhari Nehalben Jesangbhai 2. Desai Dipti Baldevbhai 3. Parmar Jinal Champaklal

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
1	Learn to Design to Your Own Solar Home System	23/07/2020	GEC Valsad	Kumar Shubham Pradeep
2	Dekho Apna Desh Webinar 84	05/09/2020	Online	Thakariya Divyeshbhai Devjibhai
3	Capacity Bulding Program Start Up Run Away	15/09/2020	Online	Darji Hitenkumar Vipulkumar
4	Quiz Celebration	24/09/2020	NSS Dept.Vijaynagar Arts Colleage	Vasava Piyush Jayrambhai
5	Quiz Celebration	24/09/2020	NSS Dept.Vijaynagar Arts Colleage	Darji Hitenkumar Vipulkumar
6	Quiz Celebration	24/09/2020	NSS Dept.Vijaynagar Arts Colleage	Rathod Sagar Devidas
7	N.S.S Day Celebration	24/09/2020	NSS Dept.Vijaynagar Arts Colleage	Kadri Mohammadrahil Mohammadiqbal
8	Fire Anf Life Safety-Industrial Prospective	29/09/2020	GEC, Dahod	Varan Mukeshbhai Ishvarbhai
9	Pathway To Peace Mahtma Gandhi	02/10/2020	GovScience College Veraval	Vasava Piyush Jayrambhai
10	Pree Training Army	05/10/2020	Maji Sanik Seva Foundation Gujarat State	Thakariya Divyeshbhai Devjibhai

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
11	Online Quiz	06/10/2020	Online	Vasava Piyush Jayrambhai
12	Online Quiz	15/10/2020	Online	Darji Hitenkumar Vipulkumar
13	Dr. A.P.J. Abdul Klam Online Quiz	15/10/2020	Online	Thakor Hiteshkumar Pratapji
14	Recent Devlopement In Solar Based Reneable Energy System	20/10/2020	Online	Darji Hitenkumar Vipulkumar
15	High Performance And Low Viscocity	11/11/2020	GEC Palanpur	Patel Harshkumar Rajendrakumar
16	Dekho Apna Desh Webinar 72	16/01/2021	Online	Vasava Piyush Jayrambhai
17	Know Your Forces	13/02/2021	Online	Zankat Sagarbhai Raisingbhai
18	Kaizen 2021	13/02/2021	NIT,Surat	Jaganiya Hitendrakumar Virabhai
19	PLC, Scada	15/02/2021	Patan	Patel Harshil Satishkumar
20	Workshop	21/02/2021	SVIP Vasad	Rathva Narvatbhai Arvindbhai
21	Project Work	24/02/2021	CIPET PTI Ahmedabad	Prajapati Rohitkumar Rameshbhai
22	Project Work	24/02/2021	CIPET PTI Ahmedabad	Thakor Nileshsinh Natvarsinh
23	Project Work	24/02/2021	CIPET PTI Ahmedabad	Prajapati Hardik Sureshbhai
24	Project Work	24/02/2021	CIPET PTI Ahmedabad	Vasava Piyush Jayrambhai
25	Project Work	24/02/2021	CIPET PTI Ahmedabad	Kanani Parthkumar Vipulbhai
26	Project Work	24/02/2021	CIPET PTI Ahmedabad	Rathod Sagar Devidas
27	Project Work	24/02/2021	CIPET PTI Ahmedabad	Valia Viraj Vallabhbhai
28	Project Work	24/02/2021	CIPET PTI Ahmedabad	Prajapati Mukundkumar Pravinbhai
29	Techno Tail	01/03/2021	Online	Vasava Piyush Jayrambhai
30	Artist's Stroke	01/03/2021	Online	Vasava Piyush Jayrambhai
31	Pen Wielder	01/03/2021	Online	Vasava Piyush Jayrambhai
32	Koda Chrome	01/03/2021	Online	Vasava Piyush

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
	Photography			Jayrambhai
33	Techno Tail	01/03/2021	Online	Patel Abhi Nikulkumar
34	Footprints'21	12/03/2021	MSU, Baroda	Patel Harshkumar Bipinbhai
35	National Level Technical Event	12/03/2021	MSU, Baroda	Bhil Hitesh Shankarji
36	Capt - O - Click	12/03/2021	MSU, Baroda	Bhil Hitesh Shankarji
37	Sanganikee Renaissance	12/03/2021	MSU, Baroda	Bhil Hitesh Shankarji
38	Want - Ad	12/03/2021	MSU, Baroda	Bhil Hitesh Shankarji
39	IM - Prints	12/03/2021	MSU, Baroda	Bhil Hitesh Shankarji
40	Digital Marketing	13/03/2021	A.D.Patel Institute Of Technology.	Thakor Sumitji Dalpatji
41	Workshop	15/03/2021	CAD Desk Patan	Darji Hitenkumar Vipulkumar
42	PLC, Scada	15/03/2021	CAD Desk Patan	Thakor Hiteshkumar Pratapji
43	PLC, Scada	15/03/2021	CAD Desk Patan	Sharma Darshan Rameshkumar
44	Advanced Exel Group	18/03/2021	CAD Desk Patan	Sharma Darshan Rameshkumar
45	Dekho Apna Desh Webinar	20/03/2021	Online	Kadri Mohammadrahil Mohammadiqbal
46	Build A Face Recognition Application Using Python	24/03/2021	Online	Rathod Sagar Devidas
47	PLC, Scada	27/03/2021	CAD Desk Patan	Parmar Harsh Rameshbhai
48	PLC, Scada	27/03/2021	CAD Desk Patan	Prajapati Jitendrakumar Chhogaram
49	PLC, Scada	27/03/2021	CAD Desk Patan	Rathod Sagar Devidas
50	PLC, Scada	27/03/2021	CAD Desk Patan	Prajapati Mukundkumar Pravinbhai
51	Advanced Excel Workshpo	28/03/2021	Online	Prajapati Jitendrakumar Chhogaram
52	Advanced Excel Workshpo	28/03/2021	Online	Rathod Sagar Devidas
53	Dekho Apna Desh Webinar 84	10/04/2021	Online	Vasava Piyush Jayrambhai
54	Dekho Apna Desh Webinar 76	10/04/2021	Online	Zankat Sagarbhai Raisingbhai
55	Dekho Apna Desh Webinar 85	17/04/2021	Online	Vasava Piyush Jayrambhai
56	One Nation One Ration	24/04/2021	Online	Thakor Hiteshkumar

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
	Card			Pratapji
57	Dekho Apna Desh Webinar 84	01/05/2021	Online	Thakor Hiteshkumar Pratapji
58	Dekho Apna Desh Webinar 84	07/05/2021	Online	Thakor Hiteshkumar Pratapji
59	Dekho Apna Desh Webinar	08/05/2021	Online	Kugashiya Mahammadali Amirali
60	Dekho Apna Desh Webinar 84	08/05/2021	Online	Thakor Hiteshkumar Pratapji
61	Bharat Ratna Dr. A. P. J. Abdul Kalam	12/05/2021	Online	Prajapati Jigneshkumar Rameshbhai
62	Thakur College Ncc Unit	18/05/2021	GEC, Palanpur	Patel Harshkumar Rajendrakumar
63	Laser Mate	21/06/2021	online	Kugashiya Mahammadali Amirali
64	International Day Of Yoga	21/06/2021	online	Kugashiya Mahammadali Amirali
65	International Day Of Yoga	21/06/2021	Online	Thakariya Divyeshbhai Devjibhai

K. Result Analysis

CIVIL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2020-21		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	54	24	44.44
	II Sem	56	46	82.14
SY	III Sem	82	58	70.73
	IV Sem	80	76	96.00
TY	V Sem	62	48	77.42
	VI Sem	63	59	93.65
LY	VII Sem	54	50	92.59
	VIII Sem	54	54	100

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

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Project - I [PROJ. - I]	54	54	100.00 %	All Faculty
Design of Reinforced Concrete Structure [DRCS]	54	50	92.59%	Prof. P. C. Vasani & Prof. Y. J. Chauhan
Irrigation Engineering [IE]	54	52	96.30%	Prof. S. G. Chauhan
Professional Practice and Valuation [PPV]	54	52	96.30%	Dr. G. M. Savaliya & Prof. M. H. Lunagaria
Traffic Engineering[TE]	54	52	96.30%	Prof. H. U. Patel
Design Engineering - II (A) [DE - II (A)]	62	57	91.94%	Prof. N. R. Kotiya & Prof. R. K. Rathod
Integrated Personality Development Course [IPDC]	50	50	100.00 %	Dr.C.G.Prajapati
Concrete Technology [CT]	57	54	94.74%	Prof. M.N.Prajapati& Prof. N.R.Kotiya
Transportation Engineering [TRE]	62	55	88.71%	Prof.H.U.Patel & Prof. M.H.Lunagaria

Design of Structures [DOS]	62	52	83.87%	Prof. P.C.Vasani & Prof. Y. J. Chauhan
Pavement Design & Highway construction [PD&H]	24	20	83.33%	Prof.H.U.Patel & Prof. M.H.Lunagaria
Structural analysis-II [SA-II]	23	22	95.65%	Prof. Y. J. Chauhan
Soil Mechanics [SM]	15	14	93.33%	Prof. N. R. Kotiya
Remote Sensing and GIS [RS&G]	62	54	87.10%	Prof. S.G.Chauhan
Effective Technical Communication [ETC]	82	77	93.90%	Prof. A. I. Roy
Indian Constitution [IC]	82	74	90.24%	Dr. G. M. Savaliya & Prof. S. G. Chauhan
Design Engineering - I (A) [DE-I (A)]	82	82	100.00 %	Prof. H. U. Patel & Prof. M. N. Prajapati
Geotechnical Engineering[GE]	82	72	87.80%	Prof. N. R. Kotiya
Building Construction and Technology [BCT]	82	73	89.02%	Dr. G. M. Savaliya
Mechanics of Solids [MOS]	82	59	71.95%	Prof. P. C. Vasani & Prof. M. N. Prajapati
Building and Town Planning [BTP]	82	71	86.59%	Prof. M.H. Lunagaria & Prof. S. G. Chauhan
Basic Electrical Engineerring [BEE]	54	51	94.44%	Prof. H. N. Chaudhary & Prof. M. G. Prajapati
Environmental Science [ES]	54	54	100.00 %	Prof. R. K. Rathod
Physics[PHY]	54	45	83.33%	Dr. K. M. Korot
Engineering Graphics and Design [EG&D]	54	36	66.67%	Prof. A. D. Patel & Prof. P. N. Boka
Mathematics - I [MATHS-I]	54	35	64.81%	Prof. D. A. Patel & Prof. R. H. Chaudhary
Induction Programme[IND. PRGM]	54	54	100.00 %	All Faculty
Project - II	54	54	100.00 %	ALL STAFF

Foundation Engineering [FE]	54	54	100.00 %	Prof. N. R. Kotiya & Prof. P. C. Vasani
Design of Steel Structures [DSS]	54	54	100.00 %	Dr. V. R. Sharma
Construction Management [CM]	54	54	100.00 %	Prof. S. G. Chauhan
Design of Prestressed Concrete Structures & Bridges [DPSCB]	7	7	100.00 %	Prof. Y. J. Chauhan
Harbour & Airport Engineering [HAE]	47	47	100.00 %	Prof. H. U. Patel
Design Engineering II B [DE-II[B]	63	61	96.83%	Prof. N. R. Kotiya & Prof R. K. Rathod
Integrated Personality Development Course [IPDC]	50	50	100.00 %	Dr. C. G. Prajapati
Water Resources Engineering and Hydrology [WREH]	61	60	98.36%	Prof. V. H. Khokhani
Environmental Engineering [ENV]	61	61	100.00 %	Prof. S. G. Chauhan
Urban Transportation Planning [UTP] [DElect-II]	19	19	100.00 %	Prof. S. G. Chauhan
Design of Reinforced Concrete structures [DRCS] [DElect-II]	29	29	100.00 %	Prof. Y. J. Chauhan
Rock Mechanics and Tunneling [RMT] [DElect-II]	17	17	100.00 %	Prof. N. R. Kotiya
Traffic Engineering and Management [TEM] [Delect-III]	19	18	94.74%	Prof. H. U. Patel
Foundation Engineering [FE-6SEM]	17	17	100.00 %	Prof. N. R. Kotiya & Prof. P. C. Vasani
Earthquake Engineering [EQ]	29	29	100.00 %	Dr.. V. R. Sharma & Prof. Y. J. Chauhan
Soft Computer techniques [SC] [O.Elect]	63	63	100.00 %	Dr.. V. R. Sharma & Prof. Y. J. Chauhan
Design Engineering 1 B [DE-I[B] [A & B]	80	77	96.25%	Prof. H. U. Patel and Prof. M. N. Prajapati

Surveying [SUR]	80	79	98.75%	Prof. V. H. Khokhani
Structural Analysis-I [SA-I]	80	77	96.25%	Prof. V. R. Sharma
Civil Engineering - Societal & Global Impact [CSGI]	80	77	96.25%	Prof. M. N. Prajapati
Complex Variables and Partial Differential Equations [CVPDE]	80	80	100.00 %	Prof. D. A. Patel & Prof. R. H. Chaudhary
Fluid Mechanics & Hydraulics [FMH]	80	80	100.00 %	Dr. G. M. Savaliya
English [ENG]	56	56	100.00 %	Prof. A. I. Roy
Programming for Problem Solving [PPS]	56	56	100.00 %	Ms. Himani Thakkar [Visiting Faculty]
Basic Civil Engineering [BCE]	56	55	98.21%	Prof. H. U. Patel & Prof. R. K. Rathod
Basic Mechanical Engineering [BME]	56	46	82.14%	Prof. P. N. Boka
Workshop/ Manufacturing Practices [W/S]	56	55	98.21%	Prof. V. K. Patel & Prof. M. K. Patel
Mathematics –2 [MATHS-2]	56	55	98.21%	Prof. D. A. Patel & Prof. R. H. Chaudhari

ELECTRICAL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2020-21		Nos. of students appeared	Nos. of students passed	Pass %
FY	**I Sem**	20	7	35.00
	II Sem	21	17	80.95
SY	**III Sem**	63	11	17.46
	IV Sem	60	43	71.67
TY	**V Sem**	58	34	58.62
	VI Sem	60	55	91.67
LY	**VII Sem**	61	54	88.52
	VIII Sem	59	58	98.31

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

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Testing and Commissioning of Electrical Equipments	59	58	98.31%	Prof. M. G. Prajapati
Power System Planning and Design	59	59	100.00%	Dr. A. M. Patel
Project	59	59	100.00%	All Faculty Member
Power System Operation and Control	59	59	100.00%	Prof. M. K. Patel & Prof. J. H. Patel
Power Quality and Management	59	59	100.00%	Prof. B. R. Patel
Project - I	61	61	100.00%	All Faculty Member
Inter Connected Power System	61	57	93.44%	Prof. K. G. Prajapati
Switch Gear and Protection	61	57	93.44%	Dr. A. M. Patel & Prof. J. H. Patel
Design of AC Machines	61	59	96.72%	Prof. M. R. Suneja
Industrial Instrumentation	61	60	98.36%	Prof. M. G. Prajapati
Design Engineering - II A	58	58	100.00%	Prof. H. N. Chaudhary
Integrated Personality Development Course	36	36	100.00%	Prof. C. G. Prajapati & Dr. K. B. Judal
Professional Ethics	58	49	84.48%	Prof. H. N. Chaudhary & Prof. M. R. Suneja
Electrical Machine- II	57	50	87.72%	Prof. M. G. Prajapati & Prof. K. G. Prajapati
Power System- II	58	45	77.59%	Dr. A. M. Patel & Prof. J. H. Patel
Signals and Systems	57	46	80.70%	Prof. H. V. Hirvaniya
Disaster Management	48	47	97.92%	Prof. K. G. Prajapati

Course	Number of Students		Pass %	Name of faculty
Python Programming	10	10	100.00%	Prof. M. K. Patel
Effective Technical Communication	63	52	82.54%	Prof. A. I. Roy
Indian Constitution	63	45	71.43%	Prof. H. N. Chaudhary & Dr. A. M. Patel
Design Engineering - I A	63	63	100.00%	Prof. M. K. Patel
Control System Theory	63	34	53.97%	Prof. H. V. Hirvaniya & Prof. J. H. Patel
Electrical Circuit Analysis	63	22	34.92%	Prof. B. R. Patel
Analog & Digital Electronics	63	20	31.75%	Prof. H. N. Chaudhary & Prof. B. R. Patel
Applied Mathematics for Electrical Engineering	63	20	31.75%	Prof. F. J. Narsingani
Programming for Problem Solving	20	16	80.00%	Prof. M. K. Patel
Basic Electrical Engineering	20	15	75.00%	Prof. H. N. Chaudhary & Prof. M. G. Prajapati
Environmental Sciences	20	20	100.00%	Prof. C. G. Prajapati
Engineering Graphics & Design	20	8	40.00%	Prof. P. N. Boka Prof. A. D. Patel
Mathematics - 1	20	12	60.00%	Prof. F. J. Narsigani
Induction Program	20	20	100.00%	Prof. K. G. Prajapati

MECHANICAL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2020-21		Nos. of students appeared	Nos. of students passed	Pass %
FY	**I Sem**	23	9	39.13
	II Sem	25	24	96.00
SY	**III Sem**	77	16	20.78
	IV Sem	73	66	90.41
TY	**V Sem**	52	37	71.15
	VI Sem	51	46	90.20
LY	**VII Sem**	58	53	91.38
	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		
3110004 Basic Civil Engineering	23	22	95.65%	Prof. R K RATHOD
3110007 Environmental Sciences	23	23	100.00%	Prof. R K Rathod
3110011 Physics	23	17	73.91%	Dr. K M Korot
3110013 Engineering Graphics & Design	23	15	65.22%	Prof. A D Patel/Prof. P N Boka
3110014 Mathematics – I	23	12	52.17%	DR. F J Narsingani/Prof. R H Chaudhari
3110017 Induction Program	23	23	100.00%	Prof. A D Patel
3130004 Effective Technical Communication	77	60	77.92%	DR. A I ROY
3130005 Complex Variables and Partial Differential Equations	77	28	36.36%	PROF. D A PATEL

Course	Number of Students		Pass %	Name of faculty
3130007 Indian Constitution	77	61	79.22%	
3130008 Design Engineering - I A	77	74	96.10%	PROF. A B PATEL
3131904 Material Science and Metallurgy	77	46	59.74%	PROF. A K PATEL, PROF. N T RAVAL
3131905 Engineering Thermodynamics	77	49	63.64%	PROF. A B PATEL, PROF. V D PATEL PROF. S K DABHI
3131906 Kinematics and Theory of Machine	77	43	55.84%	PROF. A R CHAUDHARY, PROF. P N BOKA
3150001 Design Engineering - II A	52	51	98.08%	PROF. S K DABHI
3150005 Integrated Personality Development Course	42	42	100.00	
3151909 Heat Transfer	52	46	88.46 %	PROF. V D PATEL, PROF. S K DABHI
3151910 Operation Research	52	45	86.54 %	DR. J A VADHER, PROF. N T RAVAL
3151911 Dynamics of Machinery	52	43	82.69 %	PROF. A R CHAUDHARI, Prof. P N BOKA
3151912 Manufacturing Technology	49	43	87.76 %	PROF. A K PATEL
3151913 Oil Hydraulics And Pneumatics	52	45	86.54 %	PROF. V K PATEL
3160001 Design Engineering II A	51	50	98.04%	Prof. N T Raval
3160003 Integrated Personality Development Course	42	42	100%	Prof. V K Patel
3161903 Computer Aided Design	25	25	100%	Prof. N A Patel

Course	Number of Students		Pass %	Name of faculty
3161907 Basics of Industrial Engineering	26	22	84.62%	Dr. J A VADHER/ Prof. N T Raval
3161910 Applied Thermodynamics	51	51	10%	Prof. S K Dabhi
3161914 Renewable Energy Engineering	26	26	100%	Prof. A B Patel
3161917 Computer Aided Manufacturing	25	25	100%	Dr. J A VADHER/ Prof. N A PATEL
3161920 Automobile Engineering	26	26	100%	Prof. A D Patel
3161922 Advanced Manufacturing Processes	25	24	96%	Dr. K B Judal / Prof. N T Raval
3161926 Industry 4.0	51	51	100%	Dr. J A VADHER/ Prof. N A PATEL
2170001 Project - I	58	58	100%	
2171901 Operation Research	58	58	100%	DR. J A VADHER, PROF. N T RAVAL
2171903 Computer Aided Manufacturing	58	58	100%	PROF. N A PATEL
2171909 Machine Design	58	56	96.55%	PROF. A D PATEL
2171910 Power Plant Engineering	58	56	96.55%	PROF. A B PATEL, PROF. S K DABHI
2171912 Oil Hydraulics & Pneumatics	58	56	96.55%	PROF. V K PATEL, PROF. N A PATEL
2181909 Project – II	60	60	100%	
2181910 Renewable Energy Engineering	60	60	100%	Prof. A B PATEL, Prof. S K Dabhi
2181915 Automobile Engineering	60	60	100%	Prof. A D PATEL

MINING ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2020-21		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	03	03	100
	II Sem	03	03	100
SY	III Sem	10	02	20
	IV Sem	11	11	100
TY	V Sem	16	12	75
	VI Sem	18	18	100
LY	VII Sem	20	15	75
	VIII Sem	20	20	100

ii. Course wise (with name of faculty tutor)

COURSE	NUMBER OF STUDENTS		PASS %	NAME OF FACULTY
	Appeared	Passed		
Programming for Problem Solving	03	03	100	M K PATEL
Basic Electrical Engineering	03	03	100	M G PRAJAPATI/ H N CHAUDHARY
Environmental Sciences	03	03	100	R K RATHOR
Engineering Graphics & Design	03	03	100	P N BOKA/ A D PATEL
Mathematics – I	03	03	100	F J NARSINGANI/ R H CHAUDHARY
Chemistry	03	03	100	DR. C G PRAJAPATI
English	03	03	100	DR. A.I.ROY
Basic Civil Engineering	03	03	100	R K RATHOR
Basic Mechanical Engineering	03	03	100	P N BOKA
Workshop/ Manufacturing Practices	03	03	100	M K PATEL/ V K PATEL
Mathematics –2	03	03	100	F J NARSINGHANI/ R H CHAUDHARY
Effective Technical Communication	10	08	80	DR. A.I.ROY

Complex Variables and Partial Differential Equations	10	03	30	R H CHAUDHARY
Indian Constitution	10	08	80	DR. C G PRAJAPATI/ H.N.CHAUDHARY
Design Engineering - I A	10	10	100	H.B.PATEL
Mechanics of Solids	10	06	60	M N PRAJAPATI
Introduction to Mining	10	07	70	J.V.MODI
Geology	10	09	90	H.B.PATEL
Design Engineering 1 B	11	11	100	H.B.PATEL
Mining Machinery - I	11	11	100	SURAJ KUMAR
Mine Surveying - I	11	11	100	V D PRAJAPATI
Mine Management and General Safety	11	11	100	K.M.KOROT
Mining Geology	11	11	100	H.B.PATEL
Rock Mechanics	11	11	100	J.V.MODI
Design Engineering - II A	16	16	100	H.B.PATEL
Mine Legislation	16	15	93.75	J.V.MODI
Mining Machinery - II	16	15	93.75	SURAJ KUMAR
Rock Mechanics	08	06	75	J.V.MODI
Mine Surveying - II	16	15	93.75	J.V.MODI
Underground coal Mining	16	13	81.25	SURAJ KUMAR
Human resource Management	16	14	87.50	H.B.PATEL
Integrated Personality Development Course	06	06	100	DR. C G PRAJAPATI/ K M KOROT
Design Engineering - II B	18	18	100	H.B.PATEL
Integrated Personality Development Course	06	06	100	DR. C G PRAJAPATI/ K M KOROT
Underground Metal Mining	18	18	100	J.V.MODI
Mine Hazards	18	18	100	FACULTY NOT ALLOTED
Drilling Blasting Technology	18	18	100	FACULTY NOT ALLOTED
Environment Management	18	18	100	FACULTY NOT ALLOTED
Mine Ventilation	18	18	100	SURAJ KUMAR
Project - I	20	20	100	J.V.MODI, SURAJ KUMAR
Environment Management In Mine	20	19	95	J.V.MODI
Mineral Processing	20	19	95	SURAJ KUMAR
Rock Fragmentation	20	18	90	SURAJ KUMAR

Mine Planning	20	16	80	FACULTY NOT ALLOTED
Mine Legislation	20	18	90	FACULTY NOT ALLOTED
Advance Mining Method	20	20	100	SURAJ KUMAR
Mine Mineral and Economics	20	20	100	PRAKASH DARJI
Mining and Processing of Dimensional Stone	20	20	100	PRAKASH DARJI
Mine Safety Engineering	20	20	100	PRAKASH DARJI
Project-II	20	20	100	J.V.MODI, SURAJ KUMAR
Geological Exploration of Mineral Deposits	20	20	100	H B PATEL

L. 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

Odd sem

A.Y. 2020-21[ODD Term]						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
1	VII	Design of Reinforced Concrete Structures	2170607	PROF P. C. VASANI	4.5	89.4
2	VII	Professional Practices & Valuation	2170610	Prof. M. H. Lunagariya	4.1	82.9
3	VII	Professional Practices & Valuation	2170610	Prof. G. M. Savaliya	4.2	84.6
4	VII	Traffic Engineering	2170613	Prof. H. U. Patel	4.7	93.9
5	VII	Irrigation Engineering	2170609	Prof. S. G. Chauhan	4.4	87.3
6	VII	Design of Reinforced Concrete Structures	2170607	Prof. Y. J. Chauhan	4.1	81.7
7	V	Design of Structure	3150612	PROF P. C. VASANI	4.3	85.9
8	V	Pavement Design & Highway Construction	3150613	Prof. M. H. Lunagariya	4.3	86.2
9	V	Transportation Engineering	3150611	Prof. M. H. Lunagariya	4.3	86.2
10	V	Transportation Engineering	3150612	PROF H. U. PATEL	4.6	91.4
11	V	Remote Sensing and GIS	3150617	Prof. S. G. Chauhan	4.3	86.1
12	V	Structural Analysis-II	3150614	Prof. Y. J. Chauhan	4.1	81.4
13	V	Design of Structure	3150612	Prof. Y. J. Chauhan	4.2	83.4
14	V	Soil Mechanics	3150615	Prof. N. R. Kotiya	4.5	89.5
15	V	Concrete Technology	3150610	Prof. N. R. Kotiya	4.5	90.3
16	V	Concrete Technology	3150611	Prof. M. N.	4.3	85.3

A.Y. 2020-21[ODD Term]						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
				Prajapati		
17	V	Integrated Personality Development Course	3150005	Prof. C. G. Prajapati	4.5	89.2
18	V	Design Engineering - II B	3160001	PROF N. R. KOTIYA	4.5	90.3
19	V	Design Engineering - II B	3160002	PROF R. K. RATHOD	4.5	90.4
20	III	Mechanics of Solids	3130608	Prof. P. C. VASANI	4.1	81.8
21	III	Building and Town Planning	3130609	Prof. M. H. Lunagariya	4.1	82.4
22	III	Building Construction Technology	3130607	Prof. G. M. Savaliya	4.3	85.3
23	III	Indian Constitution	3130007	Prof. G. M. Savaliya	4.1	81.6
24	III	Indian Constitution	3130007	Prof. S. G. Chauhan	4.0	79.6
25	III	Geotechnical Engineering	3130606	Prof. N. R. Kotiya	4.5	89.1
26	III	Mechanics of Solids	3130608	Prof. M. N. PRAJAPATI	4.0	80.8
27	III	Effective Technical Communication (3130004)	3130004	PROF A I ROY	4.3	86.9
28	III	Design Engineering 1 A	3130008	Prof. M. N. PRAJAPATI	4.1	81.8
29	III	Complex Variables and Partial Differential Equation	3140610	Prof. H. U. Patel	4.0	80.0
30	I	BASIC ELECTRICAL ENGG. (3110005)	3110005	PROF. H. N. CHAUDHARY	4.38	87.50
31	I	BASIC ELECTRICAL	3110005	PROF. M. G.	4.39	87.89

A.Y. 2020-21[ODD Term]						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
		ENGG. (3110005)		PRAJAPATI		
32	I	ENVIRONMENTAL SCIENCE (3110007)	3110011	PROF. R. K. RATHOD	4.80	96.06
33	I	PHYSICS (3110011)	3110011	DR. K. M. KOROT	4.63	92.67
34	I	ENGINEERING GRAPHICS & DESIGN(3110013)	3110013	PROF. A. D. PATEL	4.62	92.39
35	I	ENGINEERING GRAPHICS & DESIGN(3110013)	3110013	PROF. P. N. BOKA	4.48	89.67
36	I	MATHEMATICS - 1 (3110014)	3110014	PROF. R. H. CHAUDHARY	4.27	85.39
37	I	MATHEMATICS - 1 (3110014)	3110014	DR. F. J. NARSINGANI	4.58	91.50

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
1	VIII	Foundation Engineering	2180609	PROF P. C. VASANI	4.3	86.2
2	VIII	Design of steel Structure	2180610	DR. V. R. SHARMA	4.3	86.4
3	VIII	Harbour & Airport Engineering	2180602	PROF H. U. PATEL	4.4	88.5
4	VIII	Construction Management	2180611	PROF S. G. CHAUHAN	4.3	86.6
5	VIII	Design of Prestressed Concrete Structure & Bridges	2180612	PROF Y. J. CHAUHAN	4.3	85.1

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
6	VIII	Foundation Engineering	2180609	PROF N. R. KOTIYA	4.5	89.5
7	VI	Foundation Engineering	3160616	PROF P. C. VASANI	4.4	87.2
8	VI	Earthquake Engineering	3160621	DR. V. R. SHARMA	4.4	88.3
9	VI	Soft Computer Techniques	3160619	DR. V. R. SHARMA	4.3	85.7
10	VI	Traffic Engineering and Management	3160615	PROF H. U. PATEL	4.7	94.5
11	VI	Water Resources Engineering and Hydrology	3160610	PROF V. H. KHOKHANI	4.3	86.7
12	VI	Urban Transportation Planning	3160608	PROF S. G. CHAUHAN	4.4	87.7
13	VI	Environmental Engineering	3160611	PROF S. G. CHAUHAN	4.3	86.5
14	VI	Design of Reinforced Concrete Structure	3160612	PROF Y. J. CHAUHAN	4.4	87.5
15	VI	Earthquake Engineering	3160621	PROF Y. J. CHAUHAN	4.3	86.9
16	VI	Soft Computer Techniques	3160619	PROF Y. J. CHAUHAN	4.3	85.5
17	VI	Foundation Engineering	3160616	PROF N. R. KOTIYA	4.5	90.3
18	VI	Rock Mechanics and Tunneling	3160613	PROF N. R. KOTIYA	4.5	90.3
19	VI	Design Engineering - II B	3160001	PROF N. R. KOTIYA	4.5	90.8
20	VI	Design Engineering -	3160002	PROF R. K.	4.5	89.1

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
		II B		RATHOD		
21	VI	Integrated Personality Development Course	3160003	PROF C. G. PRAJAPATI	4.6	91.3
22	IV-A	Structural Analysis-1	3140603	PROF P. C. VASANI	4.2	83.3
23	IV-A	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.2	83.6
24	IV-A	Surveying	3140601	PROF H. U. PATEL	4.2	84.8
25	IV-A	Design Engineering 1 B	3140005	PROF H. U. PATEL	4.1	81.9
26	IV-A	Surveying	3140601	PROF R. K. RATHOD	4.1	82.9
27	IV-A	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.4	88.1
28	IV-A	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.2	84.6
29	IV-A	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.0	80.2
30	IV-A	Complex Variables and Partial Differential Equation	3140610	PROF D. A. PATEL	4.1	81.6
31	IV-A	Complex Variables and Partial Differential Equation	3140610	PROF F. J. NARSINGANI	4.0	80.1
32	IV-B	Structural Analysis-1	3140603	PROF P. C. VASANI	4.1	82.7
33	IV-B	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.3	86.2

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
34	IV-B	Design Engineering 1 B	3140005	PROF H. U. PATEL	4.3	86.7
35	IV-B	Surveying	3140601	PROF V. H. KHOKHANI	4.2	83.9
36	IV-B	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.3	85.3
37	IV-B	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.3	85.8
38	IV-B	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.2	83.9
39	IV-B	Complex Variables and Partial Differential Equation	3140610	PROF R. H. CHAUDHARY	4.2	84.6
40	IV-B	Complex Variables and Partial Differential Equation	3140610	PROF F. J. NARSINGANI	4.3	85.7

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
1	VIII	Foundation Engineering	2180609	PROF P. C. VASANI	4.5	90.1
2	VIII	Design of steel Structure	2180610	DR. V. R. SHARMA	4.5	89.1
3	VIII	Harbour & Airport Engineering	2180602	PROF H. U. PATEL	4.7	93.6
4	VIII	Construction Management	2180611	PROF S. G. CHAUHAN	4.6	92.4

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
5	VIII	Design of Prestressed Concrete Structure & Bridges	2180612	PROF Y. J. CHAUHAN	4.4	88.2
6	VIII	Foundation Engineering	2180609	PROF N. R. KOTIYA	4.5	90.7
7	VI	Foundation Engineering	3160616	PROF P. C. VASANI	4.4	87.8
8	VI	Earthquake Engineering	3160621	DR. V. R. SHARMA	4.4	87.2
9	VI	Soft Computer Techniques	3160619	DR. V. R. SHARMA	4.3	86.9
10	VI	Traffic Engineering and Management	3160615	PROF H. U. PATEL	4.5	89.9
11	VI	Water Resources Engineering and Hydrology	3160610	PROF V. H. KHOKHANI	4.5	89.1
12	VI	Urban Transportation Planning	3160608	PROF S. G. CHAUHAN	4.5	89.9
13	VI	Environmental Engineering	3160611	PROF S. G. CHAUHAN	4.3	86.0
14	VI	Design of Reinforced Concrete Structure	3160612	PROF Y. J. CHAUHAN	4.3	85.4
15	VI	Earthquake Engineering	3160621	PROF Y. J. CHAUHAN	4.3	86.2
16	VI	Soft Computer Techniques	3160619	PROF Y. J. CHAUHAN	4.1	81.3
17	VI	Foundation Engineering	3160616	PROF N. R. KOTIYA	4.6	91.2
18	VI	Rock Mechanics and Tunneling	3160613	PROF N. R. KOTIYA	4.5	91.0

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
19	VI	Design Engineering - II B	3160001	PROF N. R. KOTIYA	4.5	90.8
20	VI	Design Engineering - II B	3160002	PROF R. K. RATHOD	4.5	89.1
21	VI	Integrated Personality Development Course	3160003	PROF C. G. PRAJAPATI	4.4	87.9
22	IV-A	Structural Analysis-1	3140603	PROF P. C. VASANI	4.1	81.3
23	IV-A	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.1	82.1
24	IV-A	Surveying	3140601	PROF H. U. PATEL	4.2	83.3
25	IV-A	Design Engineering 1 B	3140005	PROF H. U. PATEL	4.2	84.9
26	IV-A	Surveying	3140601	PROF R. K. RATHOD	4.1	82.3
27	IV-A	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.2	84.8
28	IV-A	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.1	81.8
29	IV-A	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.2	83.0
30	IV-A	Complex Variables and Partial Differential Equation	3140610	PROF D. A. PATEL	4.0	80.9
31	IV-A	Complex Variables and Partial Differential Equation	3140610	PROF F. J. NARSINGANI	4.0	79.6
32	IV-B	Structural Analysis-1	3140603	PROF P. C. VASANI	4.1	81.9

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
33	IV-B	Fluid Mechanics and Hydraulics	3140611	PROF G. M. SAVALIYA	4.3	85.8
34	IV-B	Design Engineering 1 B	3140005	PROF H. U. PATEL	4.4	88.6
35	IV-B	Surveying	3140601	PROF V. H. KHOKHANI	4.1	82.8
36	IV-B	Structural Analysis-1	3140603	PROF M. N. PRAJAPATI	4.1	82.0
37	IV-B	Civil Engineering - Societal & Global Impact	3140609	PROF M. N. PRAJAPATI	4.1	81.6
38	IV-B	Design Engineering 1 B	3140005	PROF M. N. PRAJAPATI	4.2	84.9
39	IV-B	Complex Variables and Partial Differential Equation	3140610	PROF R. H. CHAUDHARY	4.1	82.3
40	IV-B	Complex Variables and Partial Differential Equation	3140610	PROF F. J. NARSINGANI	4.1	81.7
41	II	BASIC CIVIL ENGINEERING	3110004	PROF. G. M. SAVALIYA	4.39	87.72
42	II	BASIC CIVIL ENGINEERING	3110004	PROF. H. U. PATEL	4.48	89.67
43	II	BASIC CIVIL ENGINEERING	3110004	PROF. S. G. CHAUHAN	4.22	84.39
44	II	BASIC CIVIL ENGINEERING	3110004	DR. V. H. KHOKHANI	4.19	83.78
45	II	WORKSHOP MANUFACTURING PRACTICES	3110012	PROF. M. K. PATEL	4.42	88.33
46	II	BASIC MECHANICAL	3110006	PROF. P. N. BOKA	4.36	87.28

A.Y. 2020-21[EVEN TERM] PHASE-1						
Sr. No.	**Semester**	**Course Name**	**Course Code**	**Faculty**	**Average Rating out of 5**	**% Rating**
		ENGINEERING				
47	II	WORKSHOP MANUFACTURING PRACTICES	3110012	PROF. V. K. PATEL	4.26	85.28
48	II	PROGRAMMING FOR PROBLEM SOLVING	3110003	PROF. H.K.THAKAR	3.99	79.83
49	II	ENGLISH	3110002	PROF. AGNEL ROY	4.26	85.22
50	II	MATHEMATICS II	3110015	PROF. D.A.PATEL	3.98	79.50
51	II	MATHEMATICS II	3110015	PROF. R. H. CHAUDHARY	4.24	84.78

ELECTRICAL ENGINEERING DEPARTMENT

Sr No	Name of Faculty	Course Name	Course Code	Points Achieved	Total Points	Percentage
1	Prof. Manish G. Prajapati	Testing and Commissioning of Electrical Equipments	2180901	4.1	5	81.5
2	Prof. Alpesh M. Patel	Power System Planning and Design	2180903	4.0	5	80.9
3	Prof. Jugnu H. Patel	Power System Operation and Control	2180909	4.2	5	83.5
4	Prof. Manish K. Patel	Power System Operation and Control	2180909	4.1	5	82.4
5	Prof. Bhavesh R. Patel	Power Quality and Management	2180911	3.5	5	70.7
6	Prof. Hitesh V. Hirvaniya	Microprocessors and Microcontrollers	3160914	3.6	5	72.6
7	Prof. Manish K. Patel	Microprocessors and Microcontrollers	3160914	3.8	5	75.8
8	Prof. Kirti G. Prajapati	Electrical Measurement & Measuring Instruments	3160915	3.7	5	74.9
9	Prof. Jugnu H. Patel	Electrical Measurement & Measuring Instruments	3160915	3.9	5	77.8
10	Prof. Chetan G. Prajapati	Integrated Personality Development Course	3160003	3.8	5	76.7
11	Prof. Harsh N. Chaudhary	Design Engineering II B	3160001	3.4	5	68.9
12	Prof. Bhavesh R. Patel	Electrical Materials	3160923	3.3	5	66.7
13	Prof. Hitesh V. Hirvaniya	Electrical Materials	3160923	3.6	5	71.5
14	Prof. Alpesh M. Patel	Wind and Solar Energy	3160917	3.9	5	78.3
15	Prof. Harsh N. Chaudhary	Wind and Solar Energy	3160917	3.4	5	68.1
16	Prof. Kirti G. Prajapati	Element of Electrical Design	3160918	3.5	5	70.2
17	Prof. Harsh N. Chaudhary	Electric Drives	3160919	3.3	5	66.2
18	Prof. Hitesh V. Hirvaniya	Electric Drives	3160919	3.5	5	70.6
19	Prof. Kirti G. Prajapati	Inter Connected Power System	3160920	4.0	5	79.6

Sr No	Name of Faculty	Course Name	Course Code	Points Achieved	Total Points	Percentage
20	Prof. Manish G. Prajapati	Electrical Machines-I	3140913	3.80	5	76.90
21	Prof. Bhavesh R. Patel	Power Electronics	3140915	4.00	5	80.60
22	Prof. Hitesh V. Hirvaniya	Power Electronics	3140915	3.80	5	76.90
23	Prof. Harsh N. Chaudhary	Electromagnetic Field	3140912	3.80	5	76.40
24	Prof. Alpesh M. Patel	Power System-I	3140914	3.90	5	78.80
25	Prof. Jugnu H. Patel	Power System-I	3140914	4.20	5	83.40
26	Prof. Chetan G. Prajapati	Economics for Engineers	3140911	4.00	5	79.40
27	Prof. Jugnu H. Patel	Economics for Engineers	3140911	4.10	5	81.40
28	Prof. Manish K. Patel	Design Engineering-IB	3140005	3.90	5	77.30
29	Prof. Harsh N. Chaudhary	Basic Electrical Engineering	3110005	4.1	5	82.8
30	Prof. Manish G. Prajapati	Basic Electrical Engineering	3110005	4.3	5	86.8
31	Prof. R. H. Chaudhari	Mathematics-I	3110014	4	5	80.6
32	Prof. F. J. Narsingani	Mathematics-I	3110014	4.5	5	89.3
33	Prof. A. D. Patel	Engineering Graphics & Design	3110013	4.6	5	91.6
34	Prof. P. N. Boka	Engineering Graphics & Design	3110013	4.4	5	88.6
35	Prof. M. K. Patel	Programming for Problem Solving	311003	4.6	5	91.7
36	Prof. C. G. Prajapati	Environmental Science	311007	4.5	5	89.4
37	Prof. R. K. Rathod	Environmental Science	311007	4.4	5	88.2

MECHANICAL ENGINEERING DEPARTMENT

SEMESTER 1

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Prof. A D Patel	Engineering Graphics & Design	3110013	4	79.2
2	Prof. P N Boka	Engineering Graphics & Design	3110013	4.3	86.8
3	Prof. F J Narsingani	Mathematics – I	3110014	4.4	88.1
4	Prof. R. H. Chaudhary	Mathematics – I	3110014	4.5	89.1
5	Prof. K. M. Korot	PHYSICS	3110011	4.5	89.8
6	Prof. C. G. Prajapati	Environmental Sciences	3110007	4.8	95.3
7	Prof. R. K. Rathod	Environmental Sciences	3110007	4.5	90.6
8	Prof. R. K. Rathod	Basic Civil Engineering	3110004	4.4	88.2

SEMESTER 2

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Prof. A. I. Roy	English	3110002	3.9	78.9
2	Prof. A. R. Chaudhari	Programming for Problem Solving	3110003	3.8	76.0
3	Prof. V. K. Patel	Workshop/ Manufacturing Practices	3110012	3.8	77.0
4	Prof. M. K. Patel	Workshop/ Manufacturing Practices	3110012	3.9	78.2
5	Prof. H. N. Chaudhary	Basic Electrical Engineering	3110005	4.0	79.3
6	Prof. P. N. Boka	Basic Mechanical Engineering	3110006	4.1	81.1
7	Prof. D. A. Patel	Maths-II	3110015	3.9	78.9

SEMESTER 3

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	D A PATEL	CVPDE	3130005	4.00	79.9
2	A. I. ROY	ETC	313004	4.03	80.5
3	A. K. PATEL	MSM	3131904	4.11	82.1
4	N. T. RAVAL	MSM	3131904	4.02	80.4
5	P. N. BOKA	KTM	3131906	4.25	85.1
6	A. R. Chaudhari	KTM	3131906	4.15	83.0
7	V. D. PATEL	ET	3131905	4.40	88.1
8	A B PATEL	ET	3131905	4.10	82.0

SEMESTER 4

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Prof. V.K.Patel	Organisational Behaviour	3141909	3.3	65.3
2	Prof. A.K.Patel	Manufacturing Processes	3141908	4.4	87.8
3	Prof.V.D.Patel	Fluid Mechanics and Hydraulics Machines	3141906	4.4	87.6
4	Prof.A.R.Chaudhari	Fundamentals of Machine Design	3141907	3.5	70.2
5	Prof. P N Boka	Fundamentals of Machine Design	3141907	3.7	73.9
6	Prof.A.K.Patel	Mechanical Measurement and Metrology	3141901	4.3	86.7
7	Prof.N.T.Raval	Mechanical Measurement and Metrology	3141901	3.5	70.1
8	Prof. V.K.Patel	Mechanical Measurement and Metrology	3141901	4.0	80.4
9	Prof.A.K.Patel	Manufacturing Processes	3141908	4.4	87.8

SEMESTER 5

Sr. No.	Faculty	Course Name	Course Code	Average Rating out of 5	% Rating
1	Prof.A.K.Patel	Design Engineering - II A	3150001	4.3	86.80
2	Prof.S.K.Dabhi			3.5	69.10
3	Prof.A.R.Chaudhari	Dynamics of Machinery	3151911	3.8	75.70
4	Prof.P.N.Boka			3.4	68.50
5	Prof.V.D.Patel	Heat Transfer	3151909	4.2	83.80
6	Prof.S.K.Dabhi			3.2	64.40
7	Dr.K.B.Judal	Integrated Personality Development Course	3150005	4.3	85.40
8	Dr.C.G.Prajapati			3.6	72.40
9	Prof.A.K.Patel	Manufacturing Technology	3151912	4.4	88.20
10	Prof.V.K.Patel	Oil Hydraulics And Pneumatics	3151913	3.7	74.10
11	Dr.J.A.Vadher	Operation Research	3151910	4.0	80.80
12	Prof.N.T.Raval			3.7	74.00

SEMESTER 6

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Dr.J.A.Vadher	Basic Industrial Engineering	3161907	4.5	90.59
2	Prof.N.T.Raval			3.7	73.33
3	Prof.N A.Patel	Computer Aided Design	3161903	4.4	88.33
4	Prof. V.K.Patel	IPDC	3160003	3.9	77.72
5	Prof.A.B.Patel	Renewable Energy Engineering	3161914	4.0	79.12
6	Dr. K B Judal	Advanced Manufacturing Processes	3161922	4.3	85.00
7	Prof.N.T.Raval			3.7	73.44
8	Prof. S K Dabhi	Applied Thermodynamics	3161910	3.1	61.72
9	Dr.J.A.Vadher	Industry 4.0	3161926	4.3	86.28
10	Prof.N A.Patel			4.5	90.78
11	Prof.A.D.Patel	Automobile Engineering	3161920	4.5	89.28
12	Prof.N.T.Raval	Design Engineering II B	3160001	3.9	77.61

SEMESTER 7

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Prof J A Vadher	Operation Research	2171901	4.4	87.2
2	Prof. N. A. Patel	CAM	2171903	4.4	87.4
3	Prof. A. D. Patel	Machine Design	2171909	4.2	84.9
4	Prof. A. B. Patel	Power Plant Engineerings	2171910	4.3	85.3
5	PROF N T Raval	Operation Research	2171901	4.3	86.6
6	Prof. V. K. Patel	Oil Hydraulics and Pneumatics	2171912	4.0	80.7
7	Prof. N. A. Patel			4.4	88.8

SEMESTER 8

Sr No	Name of Faculty	Course Name	Course Code	Avg. Rating out of 5	% Rating
1	Prof.A.B.Patel	Renewable Energy Engineering	2181910	3.6	72.2
2	Prof.A.D.Patel	Automobile Engineering	2181915	4.2	84.2
3	Prof. S K Dabhi	Renewable Energy Engineering	2181910	3.8	75

MINING ENGINEERING DEPARTMENT

Semester I

Sr. No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	PPS 3110003	M K PATEL	4.5	5	90.6
2	BEE 3110005	M G PRAJAPATI/ H N CHAUDHARY	4.7	5	93.3
3	ES 3110007	R K RATHOR	4.9	5	98.9
4	EG 3110013	P N BOKA/ A D PATEL	4.6	5	92.8
5	MATHS-I 3110014	F J NARSINGANI/ R H CHAUDHARY	4.7	5	93.3

Semester II

Sr No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	CHEMISTRY 3110001	DR. C G PRAJAPATI	4.9	5	97.2
2	ENGLISH 3110002	DR. A.I.ROY	4.9	5	97.8
3	BCE 3110004	R K RATHOR	4.8	5	95.6
4	BME 3110006	P N BOKA	4.7	5	93.3
5	WS 3110012	M K PATEL/V K PATEL	4.6	5	92.2
6	MATHS – II 3110015	F J NARSINGANI/ R H CHAUDHARY	4.8	5	95.6

Semester III

SrNo.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	ETC 3130004	DR. A.I.ROY	4.4	5	90
2	CVPDE 3130005	R H CHAUDHARY	4.5	5	91
3	IC 3130007	DR. C G PRAJAPATI/H.N.CHAUDHARY	4.4	5	90
4	DE-1A 3130008	H.B.PATEL	4.5	5	91
5	MOS 3130608	M N PRAJAPATI	4.4	5	90
6	IM 3132201	J.V. MODI	4.5	5	90
7	GEOLOGY 3132203	H.B.PATEL	4.6	5	92

Semester IV

Sr. No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	DE-1B 3140005	H B PATEL	4.5	5	90
2	MS-I 3142202	V D PRAJAPATI	4.2	5	84
3	MM-I 3142201	SURAJ KUMAR	4.5	5	91
4	MMGS 3142207	Dr. K M KORORT	4.4	5	89
5	MG 3142208	H.B.PATEL	4.5	5	91
6	RM 3142209	J V MODI	4.4	5	90

Semester V

Sr. No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	DE – IIA 3150001	H B PATEL	4.4	5	88
2	MS - II 3152208	J.V.MODI	4.5	5	91
3	UCM 3152206	SURAJ KUMAR	4.5	5	91
4	ML 3152207	FACULTY NOT ALLOTED	-	5	-
5	MM-2 3152201	SURAJ KUMAR	4.6	5	92.1
6	IPDC 3150005	DR. C G PRAJAPATI/K M KOROT	4.4	5	86
7	HRM 3152209	H B PATEL	4.5	5	90

Semester VI

Sr .No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	DE – IIB 3160001	H B PATEL	4.5	5	89.7
2	IPDC 3160003	DR. C G PRAJAPATI/ K M KOROT	4.4	5	87
3	UMM 3162202	J.V.MODI	4.6	5	91
4	MH 3162204	FACULTY NOT ALLOTED	-	5	-
5	MV 3162207	SURAJ KUMAR	4.6	5	92
6	DBT 3162211	FACULTY NOT ALLOTED	-	5	-
7	EM 3162213	FACULTY NOT ALLOTED	-	5	-

Semester VII

Sr. No.	Course name & code	Faculty Name	**Points Achieved**	**Total Points**	Performance %
1	RF 2172207	SURAJ KUMAR	4.6	5	93
2	MP 2172201	FACULTY NOT ALLOTED	-	5	-
3	ML 2172202	FACULTY NOT ALLOTED	-	5	-
4	EMM 2172203	J V MODI	4.6	5	92
5	MPr 2172204	SURAJ KUMAR	4.6	5	91
6	PROJECT-I 2170001	J.V.MODI, SURAJ KUMAR	4.6	5	93

Semester VIII

Sr .No.	**Course name & code**	**Faculty Name**	**Points Achieved**	**Total Points**	**Performance %**
1	MPDS 2182203	PRAKASH DARJI	4.3	5	85.5
2	MME 2182201	PRAKASH DARJI	4.3	5	86.6
3	AMM 2182202	SURAJ KUMAR	4.6	5	91.6
4	MSE 2182204	PRAKASH DARJI	4.4	5	87.3
5	GEMD 2182207	H B PATEL	4.5	5	90
6	PROJECT – II 2182208	J.V.MODI, SURAJ KUMAR	4.7	5	93.1

CO-CURRICULAR ACTIVITIES

CO-CURRICULAR ACTIVITIES

A. Induction Program

(For 1st year students)

From: 15/10/2020 to 28/10/2020 (A. Y.: 2020-21)

Preface

Due to covid-19 pandemic, admission process for the 1st semester was started very late (in September). So conduction of induction program for newly admitted students was carried out accordingly.

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.

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:

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)
Total	**90 Hours**	

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

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.

Institute Time Table for Induction Program

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

Time Table

Date	DAY	Time	Activity	Staff
15-10-20	THUR	10:30 to 5:30	Initial Phase (Familiarization with College/Department)	ADP/CGP/KGP/SGC/JVM
16-10-20	FRI	10:30 to 12:30	Virtual Activity	KMK
		1:00 to 3:00	Universal Human Values	CGP
		3:10 to 5:10	Creative Arts	SGC
17-10-20	SAT	10:30 to 12:30	Virtual Activity	KMK
		1:00 to 3:00	Universal Human Values	CGP
		3:10 to 5:10	Creative Arts	SGC
19-10-20	MON	10:30 to 12:30	Virtual Activity	KMK
		1:00 to 3:00	Universal Human Values	CGP
		3:10 to 5:10	Creative Arts	RHC
20-10-20	TUE	10:30 to 12:30	Virtual Activity	KMK
		1:00 to 3:00	Literacy	RHC
		3:10 to 5:10	Creative Arts	FJN
21-10-20	WED	10:30 to 12:30	Proficiency Module	CGP
		1:00 to 3:00	Literacy	FJN
		3:10 to 5:10	Proficiency Module	AIR
22-10-20	THUR	10:30 to 11:30	Lecture by Eminent People	PCV
		1:00 to 2:00	Innovation	NAM
		3:10 to 5:10	Universal Human Values	ADP
23-10-20	FRI	10:30 to 11:30	Innovation	MKP
		1:00 to 3:00	Literacy	DAP
		3:10 to 5:10	Proficiency Module	AIR
26-10-20	MON	10:30 to 11:30	Innovation	PNB
		1:00 to 2:00	Lecture by Eminent People	KBJ
		3:10 to 5:10	Universal Human Values	ADP
27-10-20	TUE	10:30 to 11:30	Innovation	RKR
		1:00 to 3:00	Universal Human Values	ADP
		3:10 to 5:10	Proficiency Module	AIR
28-10-20	WED	10:30 to 5:30	Closing Phase	ADP/CGP/KGP/SGC/JVM

Instructions:

1) Due to COVID-19 Pandemic Situation IIPC will be conducted through online teaching mode.

2) The Activity which is distributed to more than one faculty they have to choose the topic of the activity suggested in attached manual with mutual understanding.

3) Take 3 to 4 screen shots of every online teaching session and submit to Prof. A D Patel.
4) Activities of IIPC should be covered as per GTU Induction Program Manual which will be sent via mail.

Activities Performed during Induction Program

1. Initial Phase (First Day)

Following are the activities which were planned for initial day (15/10/20):

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

Due to Covid-19 pandemic orientation program was postponed to wait for physical classes to be started. But due to more spread of covid-19 it was decided to conduct orientation program online via MS Teams on 09/12/20.

Detailed schedule of orientation program is as under:

Sr. No.	Information	Name of Staff	Duration	Time (min.)
1	Prarthana	-	3min	11:00 to 11:03
2	College documentary	-	6min	11:03 to 11:09
3	Welcome speech	Prof. A. D. Patel	2min	11:09 to 11:11
4	Occasional Speech	Dr. K. B. Judal (Principal)	9min	11:11 to 11:20
5	Scholarship information	Prof. K.G.Prajapati	10min	11:20 to 11:30
6	Student Section/ About University	Prof. V. D. Patel	5min	11:30 to 11:35
7	Know Hostel	Prof. H. B. Patel/ Prof. H. N. Chaudhari	5min	11:35 to 11:40
8	SSIP	Prof. N. A. Patel	5min	11:40 to 11:45
9	NSS	Prof. C. G. Prajapati	5min	11:45 to 11:50
10	Know your Department/Institute	Prof. P. C. Vasani Dr. J. A. Vadher Prof. B. R. Patel Prof. H. B. Patel	10min	11:50 to 12:00

Total of 108 students and 15 staff are present in online meeting.

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 demonstrated online.

i. Parade sessions to teach discipline, power of unity and manner to the students.
ii. Videos were demonstrated on various yard work, tree plantation, tree/plant maintenance, Gardening, cleanliness etc.
iii. Two session for the awareness regarding how and why to do Yoga was planned. Mr. Prabhudas (Yog expert) was invited online.

(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, Singing and Drama. Videos of these activities were demonstrated online.

During this activity students had got good exposer to their artist ability, creativity and imagination.

(c) Universal Human Values

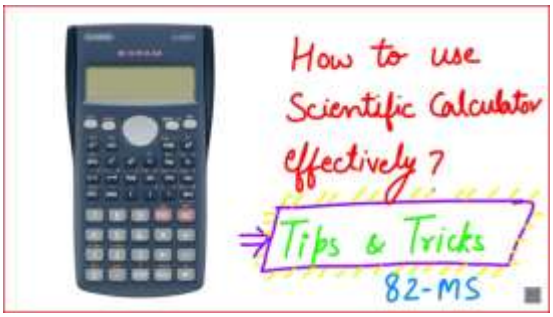
Following activities were covered for 12 hours:

i. Showing Motivational Movie "Arunima Sinha: On top of the world".
ii. Students made aware regarding environmental issues and remedies.
iii. 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.

(d) Literary

Following activities were discussed 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



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 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 Average, satisfactory and good level.
ii. Learnt them vocabulary, idioms, and expressions and understand their meanings in context.
iii. Developed ability to write a paragraph about general topics by using the English language correctly.
iv. Students are mentored to improve in English language according to his/her proficiency level based on test.

(f) Lectures by Eminent people

Two lectures each of 1 hour were arranged during induction program.

i. On 22/10/20 talk of Prof. P. C. Vasani was planned. He shared his experience in life journey.
ii. On 26/10/20, as an eminent people Dr. K. B. Judal, principal was invited. He had equipped the students with the knowledge of life-long learning and sustainable development.

(g) Innovation

Four hours online sessions under innovation were arranged. Detailed contents of the session are:

Sr. No.	Date	Time	Content
1	22-10-20	1:00 to 2:00	Awareness regarding SSIP Scheme
2	23-10-20	10:30 to 11:30	Awareness regarding Entrepreneurship
3	26-10-20	10:30 to 11:30	Videos demonstrating innovation
4	27-10-20	10:30 to 11:30	Introducing innovative technology/products

During this session students 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 (28/10/20):

- 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.

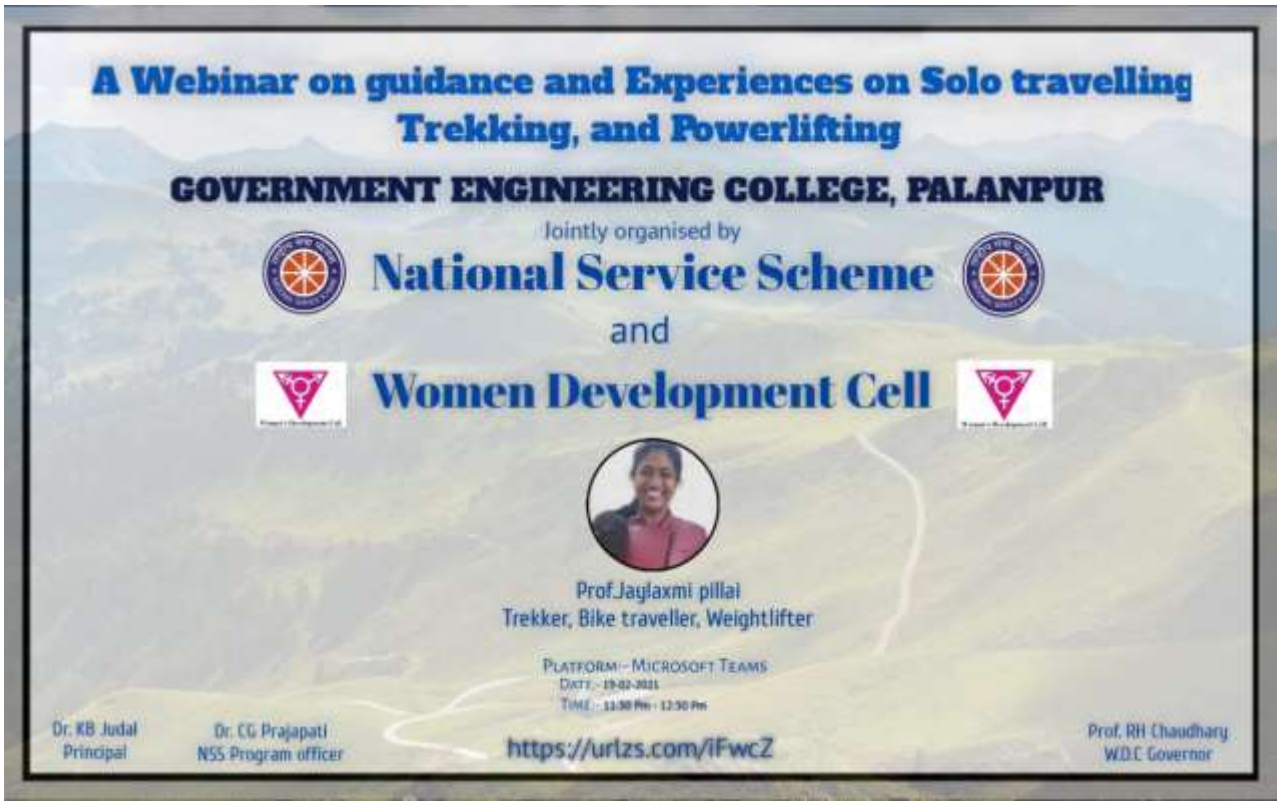
B. Personality Developments

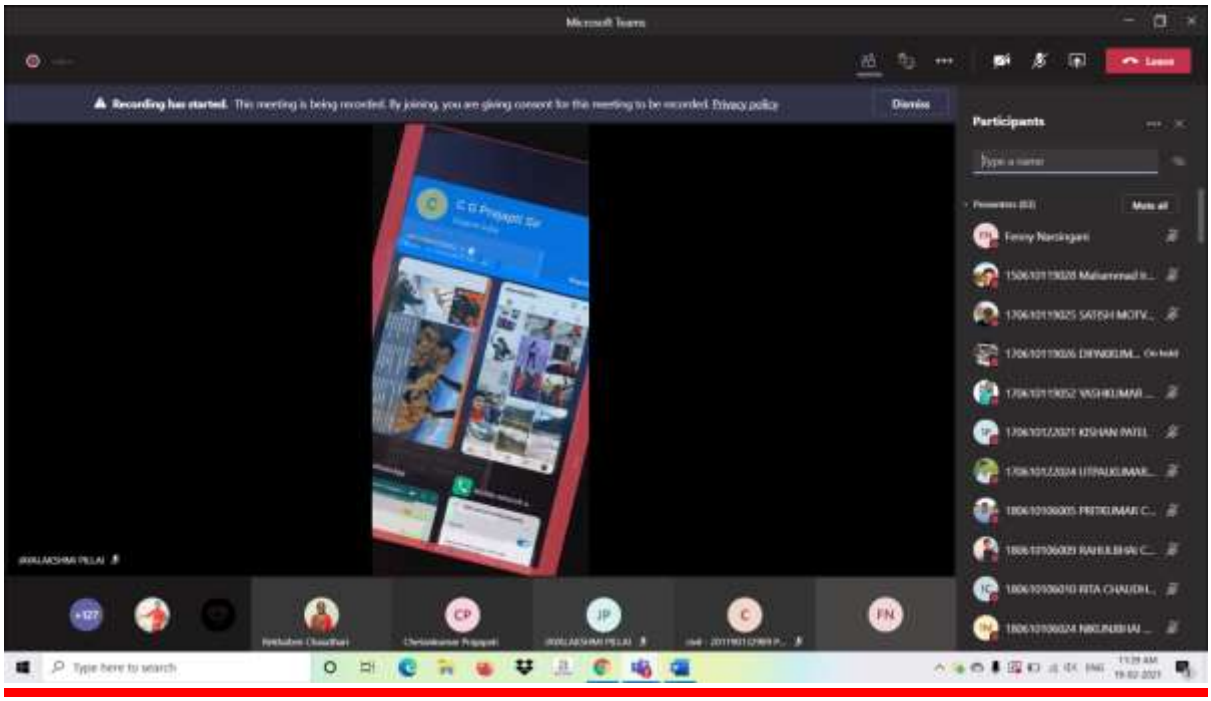
Following webinar has been arranged for personality development of students

Guiding & Experiences on Trekking, Weighlifting and Solo Trvelling

A Webinar on Guiding & Experiences on Trekking, Weighlifting and Solo Trvelling was organized at our institute by Institute NSS Unit and WDC (Women Development Cell) is on 19th February 2021. NSS Unit invite Prof. jayalaxmi Pillai from Mechanical Engineering Department at Government Polytechnic, Amedabad. Experts Prof. Pillai guided the students about the Trekking eligibility, Trekking Tips and How can participated in the different Trekking Camp. She also Explained about the Weightlifting, she is also inspired the students by providing her personal Experiences in the field of Weightlifting. She also guided about the nutrients and healthy food for the body building and increasing the immunity of our body. Expert Ms. Pillai also guided to the audience about the Solo Travelling. She also shared some personal as well as some motivated speech about the other Trackers, Solo Riders and Weightlifters. It is a really Interesting, Motivated

and guiding session for the students as well as faculties of the Institute. At the End of the webinar there is also arrange some question –answering sessions for the students. Experts solve the queries in the session for the students.





C. Career Guidance/Gate Cournseling/Mock Interview

A Sminar on Glorious career in Defence during and after Engineering was organized at our institute by Institute NSS, NCC Unit is collaboration with Unicorn Defence, Gandhinagar on 12th January 2020. Experts Mr. Colonel Rajeev R. (Senior Defence Personnel), Mr. Hitendrasinh (UH, Defence Unicorn), Mr. Hardik P. and Mrs. Paridhi P. (Vedic Maths Expert) guided the students. Experts Mr. Colonel Rajeev R. (Senior Defence Personnel) explain the glorious career in the defence Like Indian Army, Indian Navy and Indian Air force for the Graduate Engineers and before completion of Engineering Course. Mr. Hitendrasinh (UH, Defence Unicorn) explain about the Advertisement, Examination pattern and different stages for the selection of different post of the Indian Navi, Army and Air force. Mr. Hardik P. and Mrs. Paridhi P. (Vedic Maths Expert) explain about the pattern of the question paper and example of some logic, aptitude, GK and Vedik Maths etc. questions and how to crack the NDA, CDS and other Defence Examination. More than 200 students benefited for the seminar.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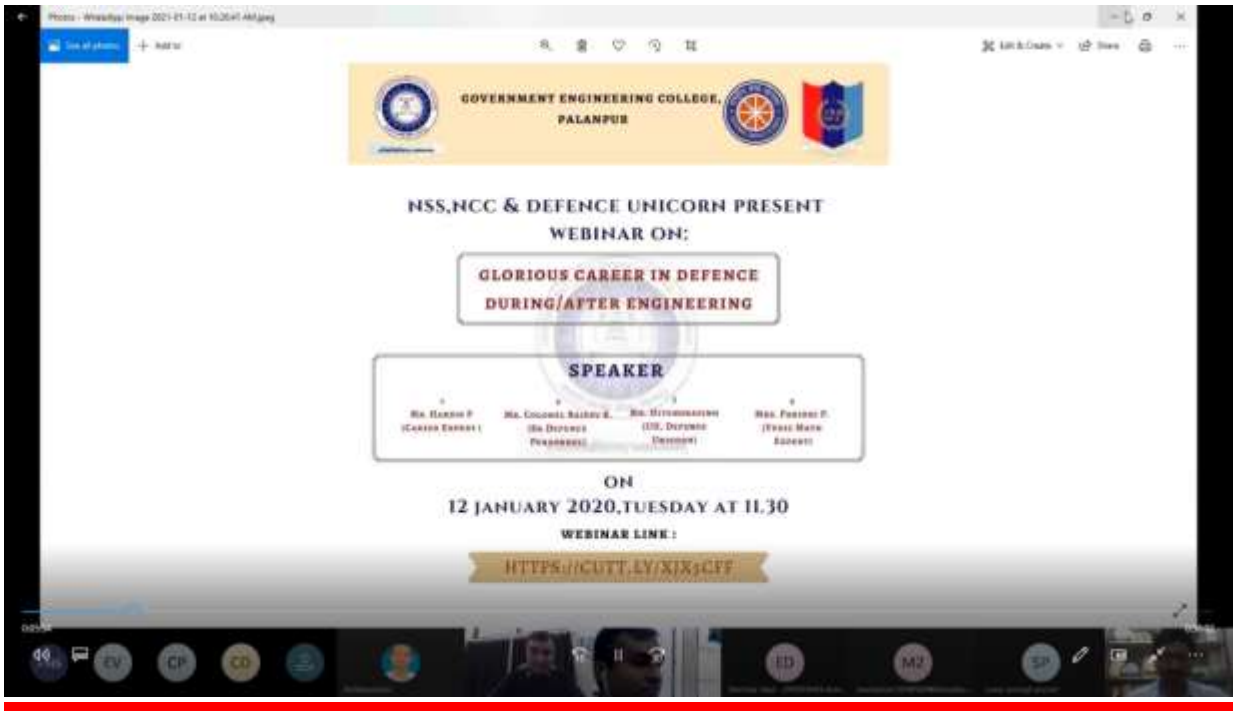
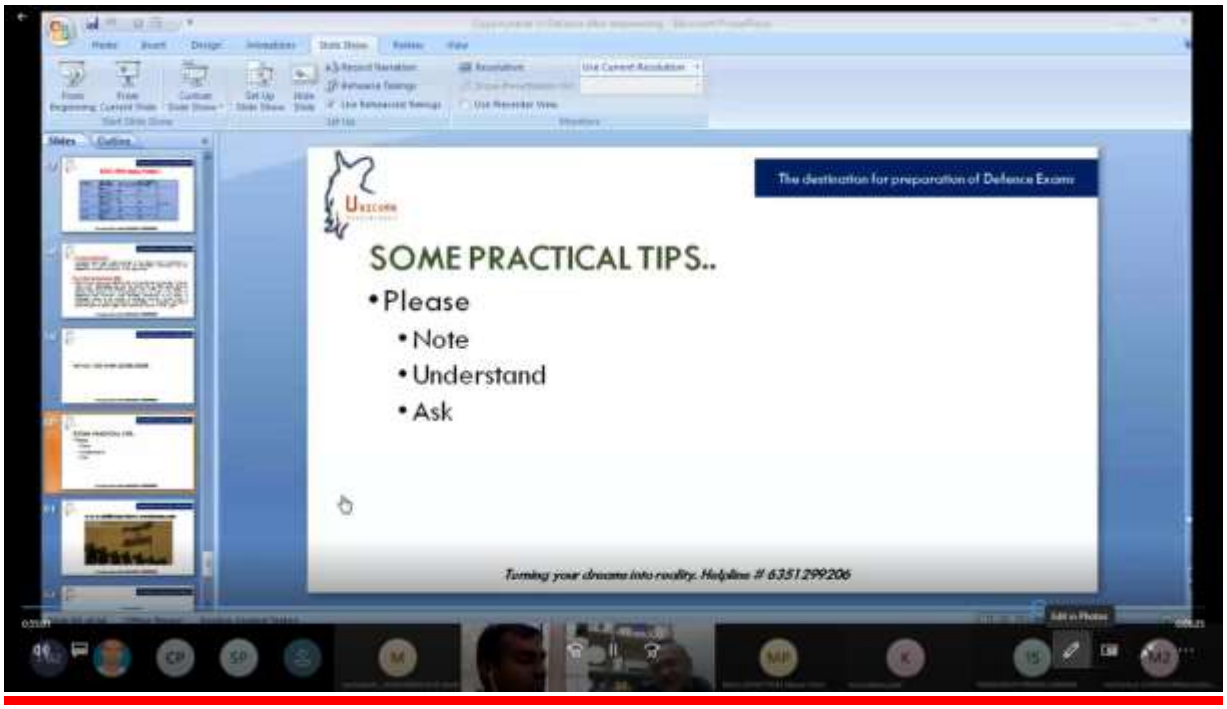
Dismiss
Participants


GOVERNMENT ENGINEERING COLLEGE, PALANPUR
NSS,NCC & DEFENCE UNICORN PRESENT
WEBINAR ON:
GLORIOUS CAREER IN DEFENCE DURING/AFTER ENGINEERING
SPEAKER
ON
12 JANUARY 2020,TUESDAY AT 11.30
WEBINAR LINK :
HTTPS://CUTT.LY/XIX5CFF



D. Finishing School

Institute has organized 10 days skill development training through finishing school. Our college allocated first Set-A of twenty hours of training in four batches from 15/12/2020 to 24/12/2020. The registered students have participated in the first twenty hours training in online mode through MS Team. This initiation was welcomed by our students and they participated actively in the all the session's.

These sessions were lead by empanelled trainers Mr. Uday Dholakiya, Dr. Hitesh Patel, Mr. K. C. Shah and Mrs. Anupama Bohra, 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.

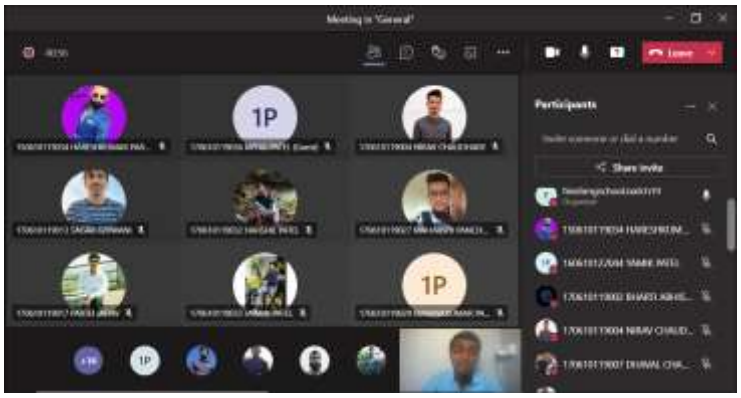
Institute has organized second 10 days skill development training through finishing school. Our college allocated second Set-C of twenty hours of training in three batches from 10/05/2021 to 20/05/2021. This initiation was welcomed by our students and they participated actively in the all the session's.

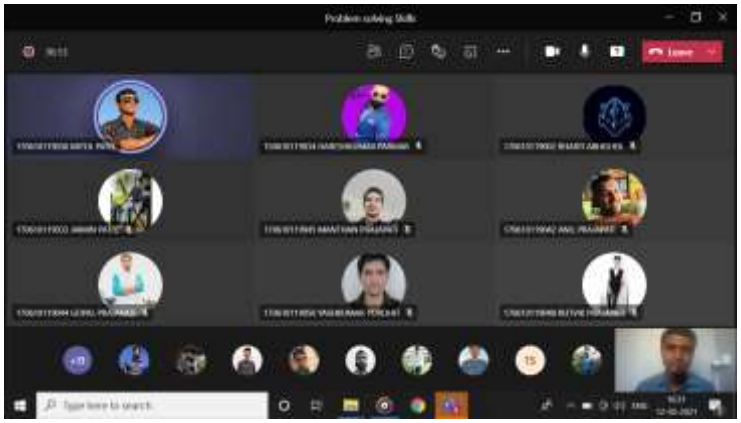
These sessions were lead by empanelled trainers Mr. Gaurav Thakkar, Dr. Hitesh Patel and Mr. K. C. Shah, who executed the assigned task in most interactive way. The topics covered were mainly focused on employability skills and life skills providing a thinking approach. Course broadly covered *Team Work, Leadership skills, Problem Solving, Critical Thinking & Professional Ethics, Positive Attitude and Motivation, Presentation Skills and Meeting Etiquette, Time Management, Self-Discipline and Emotional Intelligence (EI), Stress Management and Anger Management, Social Media & Cyber Etiquette*.

Total **191** students registered and participated in finishing school training program in academic year 2020-21.

Sr.No.	Name of training	Start Date	End Date	Number of Beneficiary
1	Finishing School Program First Phase of 20 hours for Batch 18-19-20-21	15/12/2020	24/12/2020	191
2	Finishing School Program Second Phase of 20 hours Batch 18-19-20	10/5/2021	20/05/2021	144

The photographs of the training are attached herewith.





Certificate Distribution and Review meeting Photos

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

A Project Exhibition

Preface:

A Project Exhibition is organized at central level of Government Engineering College, Palanpur on 26th March 2021. The project exhibition is a great opportunity for students to take exposure about the new innovations and thinking like young scientists. Expert from other institute were invited not only to evaluate projects but also interact and guide students for enhancement of knowledge. Hands-on exploration of interaction was exciting and the educational benefits are plentiful as students develop their skills in problem-solving and creative thinking.

Purpose:

1. The main aim of project exhibition 2020 is to provide a platform to students where they can demonstrate their ideas to guests from various industries, institutes, faculty members and students.
2. The other purpose of project exhibition was to give the exposure of final year projects to pre Final Year (3rd year) students so they can primarily ideate their area for project work and innovate new things for industries in their project.

EVENT DETAILS

Date	26th March 2021
Place	Online – Platform – Microsoft Team
Time	10:30 AM Onwards
Principal	Dr. K B Judal
Head of The Department	1. Dr. J A Vadher (Mechanical Department) 2. Prof. P C Vasani (Civil Department) 3. Prof. B R Patel (Electrical Department) 4. Prof. H B Patel (Mining & General Department)
GIC Cordinator	Prof N A Patel (Mechanical Deaprtment)
GIC Co-Cordiantor	1. Prof. H V Hirvaniya (Electrical Departmennt) 2. Prof.. R. K. Rathod (Civil Department) 3. Prof. J V Modi(Mining Department) 4. Prof. N T Raval (Mechanical Deaprtment)
Nos. of Project Teams	1. Project Teams (Electrical Departmennt) 2. 11 Project Teams (Civil Department) 3. Project Teams (Mining Department) 4. 15 Project Teams (Mechanical Deaprtment)
Expert (Academics)	1. Mechanical Engineering Expert Name • Prof. K P Patel, GEC Patan

	• Prof. M K Patel, K. D. Polytechnic, Patan 2. Electrical Engineering Expert Name 3. Civil Engineering Expert Name • Prof. Upendra Singh (VGEC, Chandkheda) ; • Prof. Paresh Nimodiya (GEC, Patan) 4. Mining Engineering Expert Name • Shri. Akshay Barad (Gujarat Mineral Development Corporation) • Miss. Tripti Maurya (015 - GEC Bhuj)

F. Branch wise project teams and expert reviews:

Department of Electrical Engineering

Section 1- Introduction

No. of Projects: 15 No of Students: 61

Evaluation Committee:

Head of Department: PROF B R PATEL

Guest from Institute: MR KAPIL R JOSHI

Project Coordinator: PROF H N CHAUDHARI

Section 2- Top Three Projects

Rank	Project Title	Enrollment	Team Members
1	SOLAR VEHICLE	170610109022	PANCHAL HARSHIKESH D.
		170610109025	PARMAR HARSH R.
		170610109047	RATHOD SAGAR D.
		170610109059	VAGHELA RUTVIKKUMAR J.
2	Design and simulation of bldc motor controller	170610109015	KUMAR SHUBHAM P.
		170610109012	KANANI PARTH KUMAR V.
		170610109024	PANDOR ABHISHEK A.

		170610109027	PATEL ABHI N.
3	Partial Shading of a PV Module Using MATLAB	170610109010	JOSHI KESHAV SATYANARAYAN
		170610109061	VERMA RAVI
		170610109054	TAILOR UDAYKUMAR V.
		170610109008	JOG DIPEN N.

Department of Mechanical Engineering

Section 1- Introduction

No. of Projects: 15 No of Students: 137

Evaluation Committee:

Head of Department: Dr. Jeetendra A Vadher

Guest from Institute: Prof. K P Patel, GEC Patan
Prof. M K Patel, K. D. Polytechnic, Patan

Project Coordinator: Prof. N T Raval

Section 2- Top Three Projects

Rank	Project Title	Enrollment	Team Members
1	DESIGN , DEVELOPMENT AND MANUFACTURING OF SOCKET FOR EASY MOUNTING OF CEILING FAN	170610119046	Prajapati Mohitkumar Popatbhai
		170610119048	Prajapati Rutvikkumar Galbabhai
		170610119004	Chaudhary Nirav Kesharbhai
		170610119049	Prajapati Vishalkumar Jayantilal
		170610119042	Prajapati Anilkumar Dahyabhai

2	HYBRID ELECTRICAL VEHICLE	170610119036	Patel Mitul Rajanibhai
		170610119031	Patel Brij Sanjaykumar
		170610119032	Patel Harshil Maheshkumar
		170610119043	Prajapati Dhruv Vinodbhai
3	DESIGN AND DEVELOPMENT OF SHELL AND TUBE TYPE HEAT EXCHANGER FOR SOLAR ENERGY STORAGE USING PCM	170610119014	Hashmi Moh Haris Riyaz Aslam
		170610119012	Gidwani Mahesh Hareshbhai
		170610119013	Gidwani Sagar Vasubhai
		170610119001	Baloch Mohammad Aman Abdul Ajij

Department of Civil Engineering

Section 1- Introduction

No. of Projects: 11 No of Students: 53

Evaluation Committee:

Head of Department: Prof P C Vasani (Civil Department)

Guest from Institute: Prof. Upendra Singh (VGEC, Chandkheda) ;
Prof. Paresh Nimodiya (GEC, Patan)

Project Coordinator: Prof. (Dr.) V. R. Sharma; Prof. Y. J. Chauhan
Vishwakarma Project Coordinator: Prof. (Dr.) G. M Savaliya

Section 2- Top Three Projects

Rank	Project Title	Enrollment	Team Members
1	**Effect of Glass sand as a replacement of natural river sand on HSSCC**	170610106007	CHAUDHARI NEHALBEN JESANGBHAI
		170610106003	BHARATIYA RAJKUMAR ARJUNBHAI
		170610106009	CHAUDHARY DIXITKUMAR PRAVINBHA
		170610106058	SOLANKI SACHIN ZAVERJI
		170610106015	CHAUDHARY RAKESHKUMAR RAVJIBHAI

2	**Nonlinear Time History Analysis Of G+23 Building with shear wall and fluid viscous damper In Etabs.**	180613106015	SUNSARA ISHABHAI HABIBBHAI
		180613106002	CHAUDHARI URVASHIBEN RAJESHBHAI
		170610106053	SATHAVARA UTSAV DAHYABHAI
		170610106028	KARNAVAT KAUSHIKKUMAR RAMESHBHAI
		170610106022	GAMIT HITESHKUMAR JAGDISHBHAI
3	**Seismic Analysis of Steel & RCC Moment Frames using Nonlinerar THA**	180613106011	PRAJAPATI LILABHAI SOMABHAI
		180613106010	PRAJAPATI JAYESHBHAI KARAMSHI
		180613106003	CHAUDHARI VIPULBHAI VIRABHAI
		170610106061	VYAS DHAVALKUMAR DILIPBHAI
		180613106007	PANCHAL SANJAYBHAI RAMESHBHAI

Department of Mining Engineering

Section 1- Introduction

No. of Projects: 04 No of Students: 21

Evaluation Committee:

Head of Department: Dr. H. B. Patel

Guest from Institute: Miss. Tripti Maurya (015 - GEC Bhuj)

Industrial Expert: Shri. Akshay Barad (Gujarat Mineral Development Corporation))

Project Coordinator: Mr. J. V. Modi

Section 2- Top Three Projects

Rank	Project Title	Enrollment	Team Members
1	Multi gas Detector	160610122044	Patel Yamik Mukeshbhai
		160610122002	Ansari Ibranmahammad Kalamuddin
		160610122015	Desai Abhishek Ishwarbhai
		170610122015	Pandey Shubham Nityanand K Pandey
2	Study of Base Line Environmental Monitoring In Surface Mine	180613122004	Pandya Naman Hardikkumar
		180613122001	Dulera Jigarkumar Gunvantbhai
		180613122002	Gevariya Hareshkumar Babubhai
		180613122003	Kadia Harsh Kirtikumar
		180613122005	Patel Poojankumar Satishbhai
3	Study of the possibilities of Utilizing industrial Solid Wastes and fly ash	170610122024	Patel Utpalkumar Pravinbhai
		170610122030	Surela Satishkumar Jayantibhai
		170610122016	Pandya Satyam Jayeshkumar
		170610122018	Parmar Rajeshwarsinh Dipaksinh
		170610122021	Patel Kishankumar Atulbhai

Section 3- Reviews

Expert Reviews:

- Experts find that most of the projects are innovative in nature and can use for real applications.
- Experts appreciate the efforts of GTU Innovation Council and institute for arranging such kind of event.
- Experts advise to make a real model that can be directly used to real life problem.
- Experts advise that innovative ideas should be patented.
- Validation of softwares used should be included in the project.
- Projects related to laboratory testing should be increased.
- Overall good project topics selected by students.
- In depth literature review is done by the students.

Feedback from experts (4-5 Points)

- The choice of the project selection by the students is very versatile.
- The work done by the students on simulation is appreciable.
- Technical fundamental knowledge of the some of the students need improvement.
- Overall good project work carried out by the students.
- Good Student-Faculty interaction.
- Need extra laboratory work and validation for the projects

- Students needs to improve Presentation slides
- Student needs to improve their presentation skills.
- Student have to do more focus on the work.

Feedback from final year teams/students (4-5 Points)

- We have done simulations for the project but lack of availability of simulation software has limited our scope – Shubham Kumar.
- We need to do project physically, but the current scenario have put restriction on that – Keshav Joshi.
- We need more time to do work on project but parallel course teaching is not giving us time – Rathod Sagar.
- Project Fair helped us to demonstrate our research to the experts as well as our junior colleagues.
- Suggestions from experts will help us to further improve our project.
- Good mentorship and support by the guides.
- It enhances the understanding of other research topics as well.
- Need essential laboratory supports to do project work effectively.
- Financial supports are highly appreciable.
- Essential instruments are required in the departmental laboratory for better performance in the projects.
- Related software are require to do the validation of work.

Feedback from faculty members

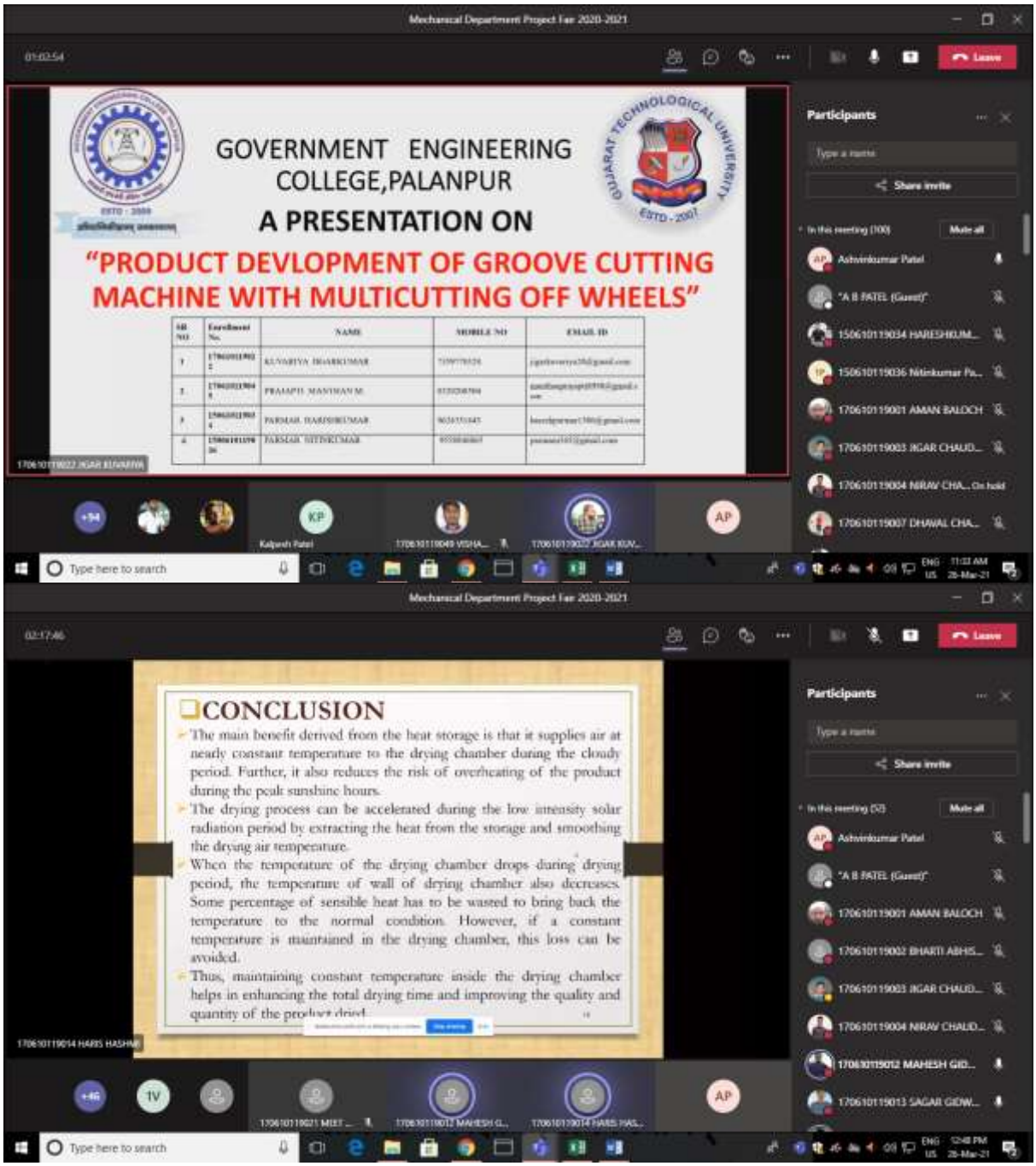
- Good efforts by the students to compete in this corporate world.
- Good team work had seen during this event.
- Good project work carried out by the students.
- Few students are advised to put extra efforts in validation
- Students performance were good in the projects.
- Students needs to improve Presentation skills.
- Student needs to improve their language skills.
- Good project work carried out by the students.
- Work should be published in good international conferences and journals

- Project work may be extended to PG level.
- Students have really performed well by working from home.

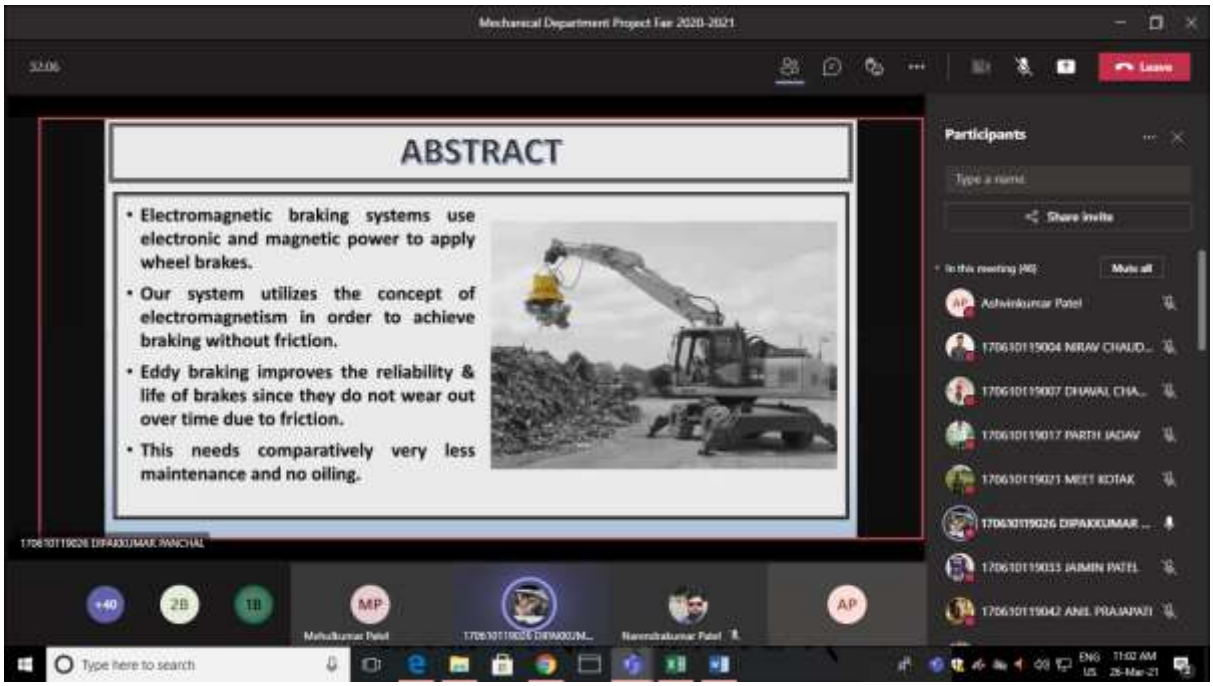
Students need simulation software like MATLAB, ETAP, DIALUX etc.

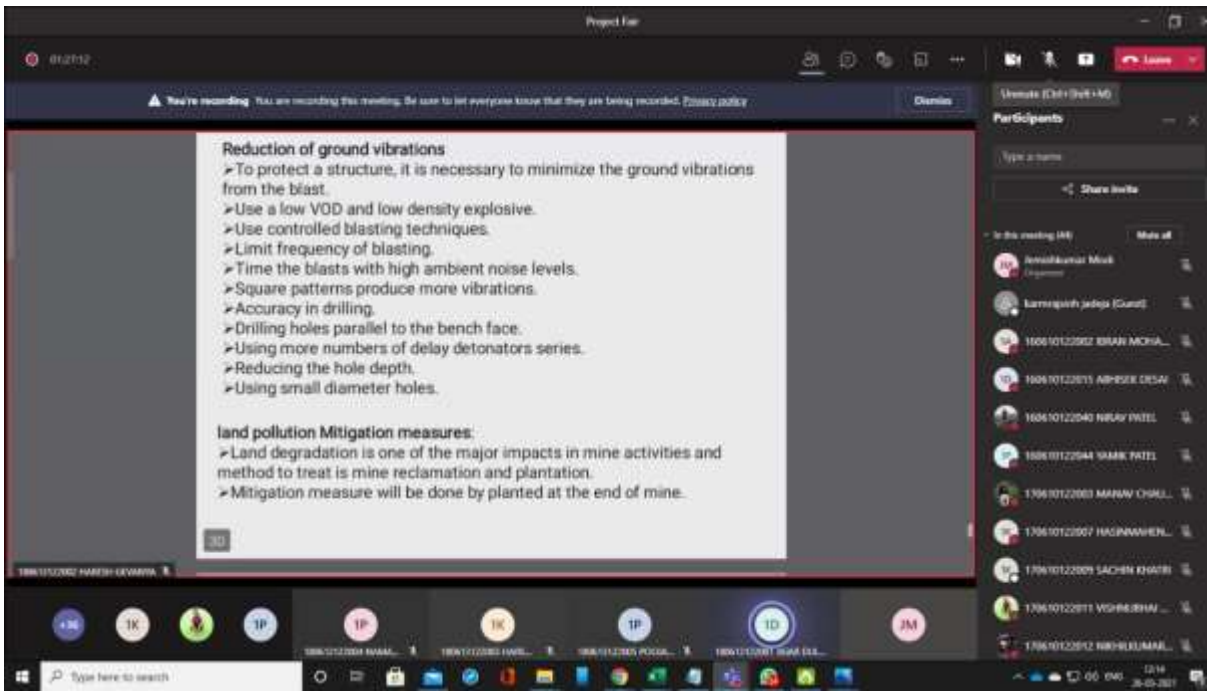
PHOTO GALLERY

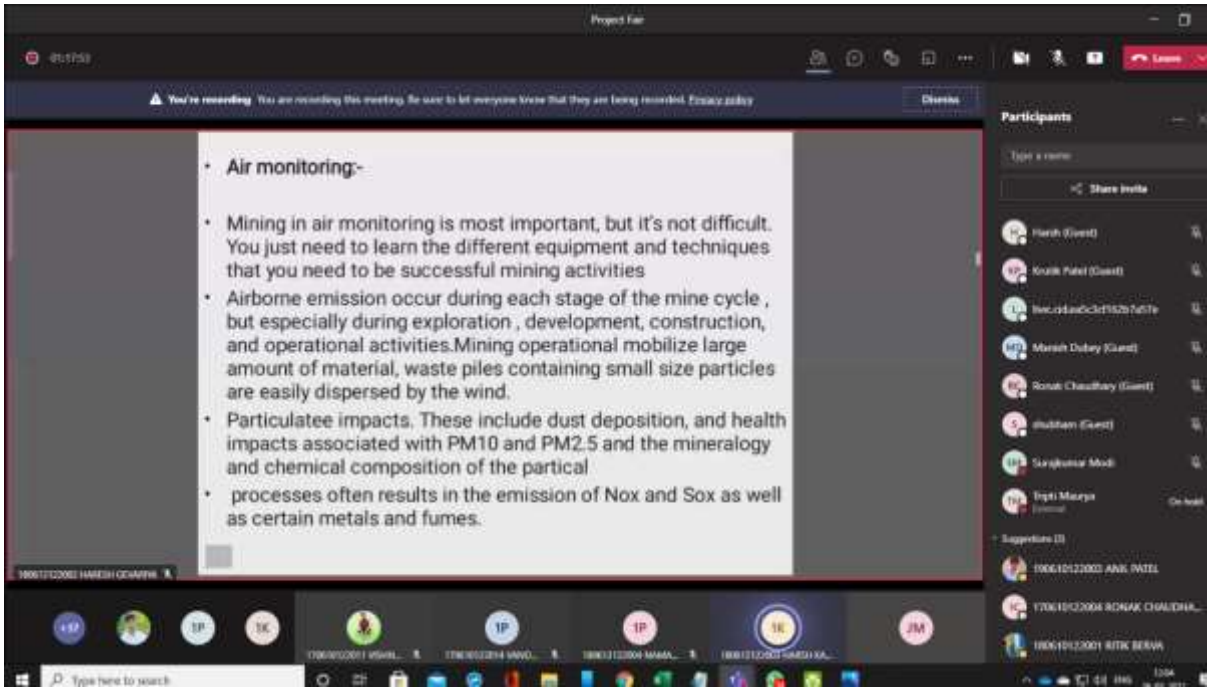
Poster

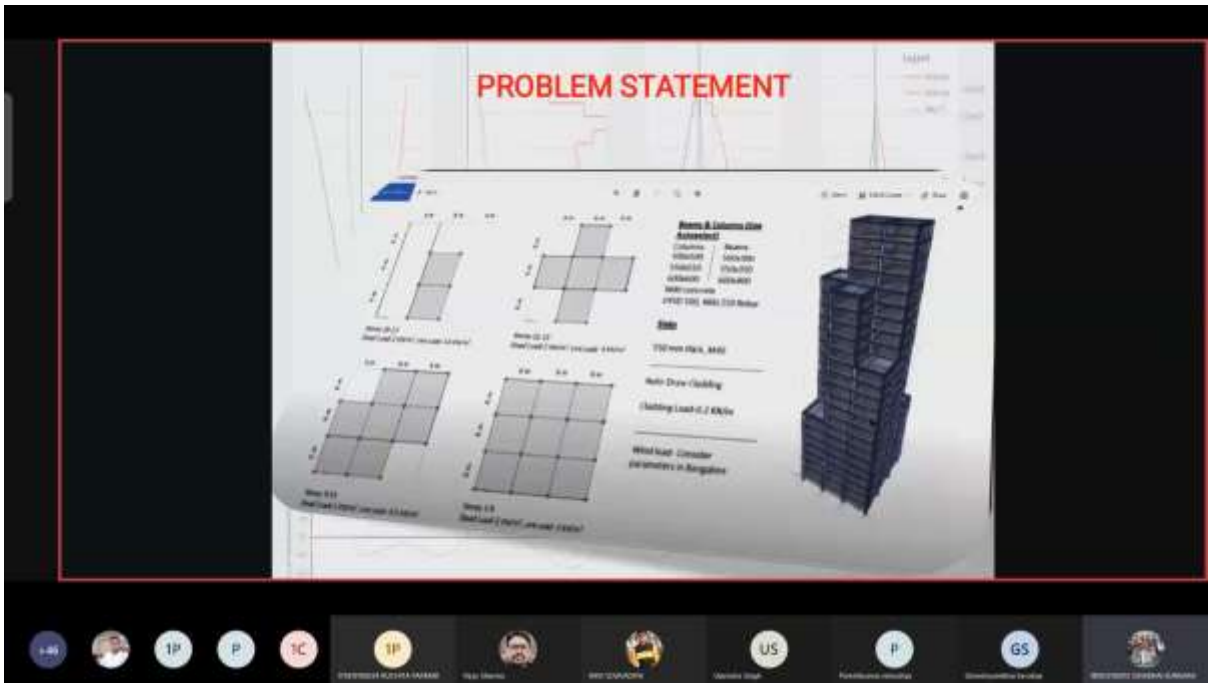


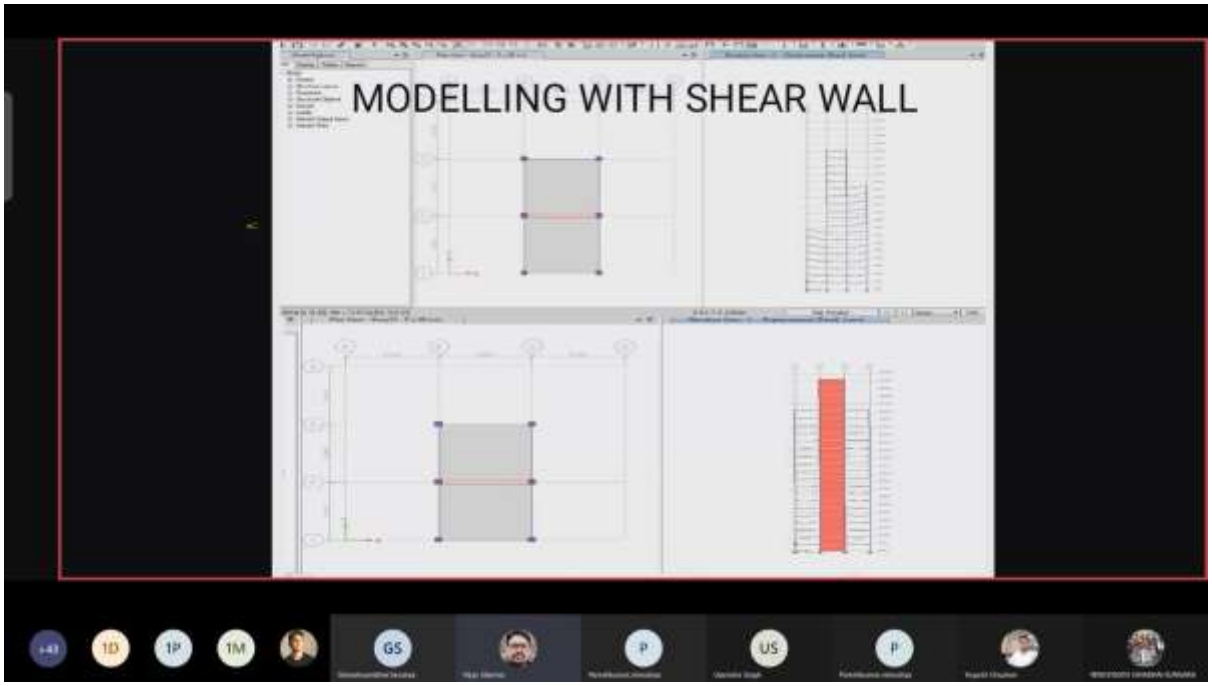
Students Demonstrating Projects to Experts



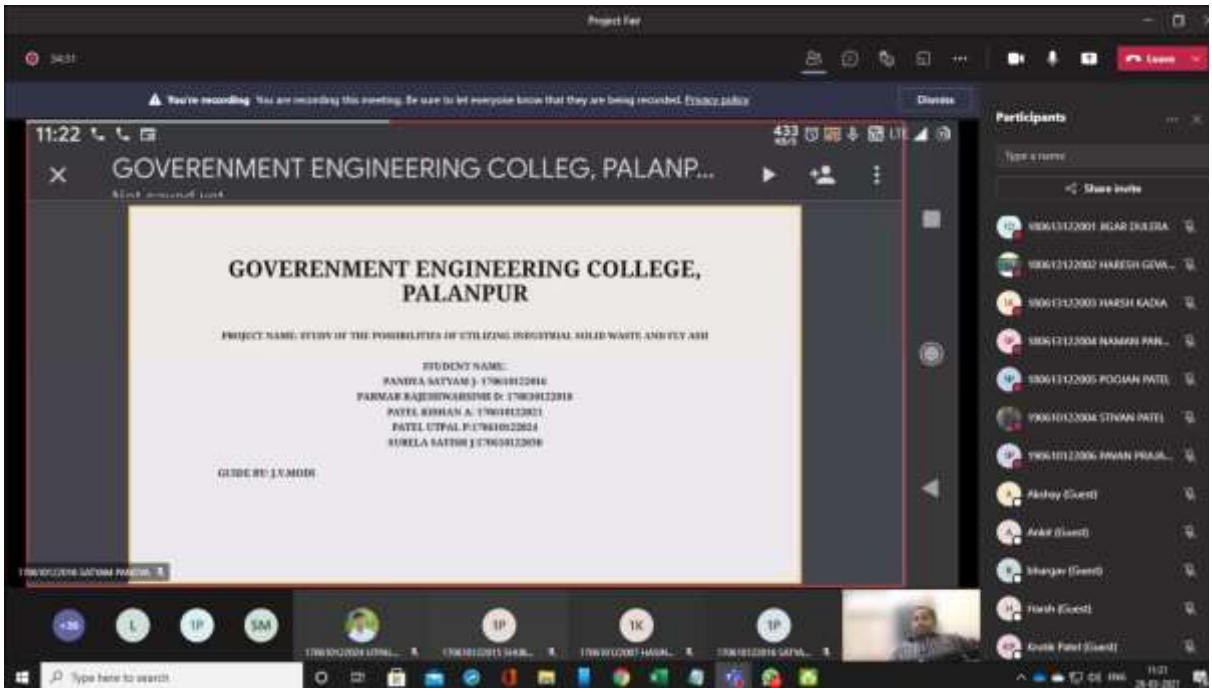



Project Fair
You're recording You are recording this meeting. Be sure to let everyone know that they are being recorded. Privacy policy
Dismiss
Participants
Air monitoring:-
Mining in air monitoring is most important, but it's not difficult. You just need to learn the different equipment and techniques that you need to be successful mining activities
Airborne emission occur during each stage of the mine cycle , but especially during exploration , development, construction, and operational activities.Mining operational mobilize large amount of material, waste piles containing small size particles are easily dispersed by the wind.
Particulatee impacts. These include dust deposition, and health impacts associated with PM10 and PM2.5 and the mineralogy and chemical composition of the partical
processes often results in the emission of Nox and Sox as well as certain metals and fumes.


PROBLEM STATEMENT


MODELLING WITH SHEAR WALL


VID-20210325-WA0005.mp4
US
Project Fair 2021-20210325_083357-Meeting Recording



Feedback from 3rd year students

- Project exhibition which was conducted by our college we observed the projects and it was very appreciable and we got to learn many practical things from it.
- We have gained a many ideas and it may be very useful for us in deciding projects in final year.
- We have also found the way to make the ideas to be implemented. Some of the ideas can also be extended at larger scale
- Project Fair will help us to choose the research topic our project in the final year.
- Good and Motivational project which boost us to do innovative work and got ideas through this event.

G. 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 19th 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 23rd 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.

H. Summer Training

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
1	The Project Manager, WDFCC CTP 3R Project, L&T office, Bhandu	25/05/2021 to 8/06/2021	15	Chaudhary Tejashkumar Mohanbhai	Civil
2		27/05/2021 to 11/06/2021	16	Prajapati Dhruvkumar Jayntibhai	Civil
3	Mayank N Konkani	24/05/2021 to 16/06/2021	24	Nikunjbhai Mahla	Civil
4	Gangamaiya Construction	24/05/2021 to 16/06/2021	24	Patel Harmit Sunilbhai	Civil
5	Chamunda Earth Movers	24/05/2021 to 16/06/2021	24	Rajgor Niteshkumar Raghubhai	Civil
6	Nagarpalika Chhotaudepur	27/05/2021 to 09/06/2021	14	Vanrajsinh Raghubhai Rathwa	Civil
7	Hubtown North Star Ahmedabad	27/05/2021 to 08/06/2022	13	Nai Ronak Mahendrabhai	Civil
8	Shree L. K. Patel	27/05/2021 to 08/06/2021	13	Chaudhary Rahulbhai Chunabhai	Civil
9	SP Infracon	28/05/2021 to 10/06/2021	14	Zala Dipendrasinh Vanrajsinh	Civil
10		28/05/2021 to 10/06/2021	14	Panchal Hitesh Laxmanbhai	Civil

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
11	Gayatri Construction	29/05/2021 to 12/06/2021	15	Dobariya Nayan Pragjibhai	Civil
12	Saswat Construction	1/06/2021 to 16/06/2021	16	Bhutka Saurabhkumar Motibhai	Civil
13	Rajkamal Builders Infrastructure Pvt. Ltd	1/06/2021 to 15/06/2021	15	Hirvaniya Akshir Maheshkumar	Civil
14	Jayveer Infrastructure	29/05/2021 to 12/06/2021	15	Patel Bhavinkumar Vishnubhai	Civil
15		29/05/2021 to 12/06/2021	15	Patel Smitkumar Natvarlal	Civil
16	M.V. Construction	31/05/2021 to 15/06/2021	16	Asumal Chhanabhai Pavar	Civil
17	S. D. Chaudhary Construction	31/05/2021 to 15/06/2021	16	Prajapati Vipulbhai Somabhai	Civil
18		31/05/2021 to 15/06/2021	16	Chaudhary Kayur Rameshbhai	Civil
19	N. K. Construction	29/05/2021 to 12/06/2021	15	Barot Prakash Nagjibhai	Civil
20		31/05/2021 to 13/06/2021	14	Chaudhari Kirankumar Ghemarbhai	Civil
21	Rachana Engineer	31/05/2021 to 13/06/2021	14	Chaudhari Pritkumar Abherajbhai	Civil
22	Raj Construction	29/05/2021 to	19	Thumar Binal Hareshbhai	Civil

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
		16/06/2021			
23	Prabhu Enterprise	29/05/2021 to 12/06/2021	15	Prajapati Vijaykumar Devabhai	Civil
24		29/05/2021 to 12/06/2021	15	Mevada Akhilkumar Chandulal	Civil
25		29/05/2021 to 13/06/2021	16	Prajapati Kalpeshkumar Kanabhai	Civil
26	Nakhshtra Devloper	31/05/2021 to 13/06/2021	14	Gami Ankitkumar Sureshbhai	Civil
27	Chamunda Earth Movers	31/05/2021 to 13/06/2021	14	Mevada Niteshkumar Rameshbhai	Civil
28	D. N. Construction	29/05/2021 to 12/06/2021	15	Barot Piyush Maldevbhai	Civil
29	S. D. Chaudhary Construction	2/6/2021 to 16/06/2021	15	Chaudhary Meet Babubhai	Civil
30	Tirupati Buildzone Private Limited	2/6/2021 to 15/06/2021	14	Chauhan Laxmansinh Pravinsinh	Civil
31	Disha Construction	2/6/2021 to 15/06/2021	14	Suhagi Virajkumar Rameshbhai	Civil
32	Nakhshtra Developer	31/05/2021 to 13/06/2021	14	Padhiyar Sudhir Kumar Kishorbhaii	Civil
33		31/05/2021 to 13/06/2021	14	Prajapati Anulbhai Kamaleshbhai	Civil
34	P.R.Patel & Co.	31/05/2021	14	Patel	Civil

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
		to 13/06/2021		Aniketbhai Rajeshbhai	

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
1	Caption Pump and Motor	28/05/2021 to 13/06/2021	17 Days	2	EE
2	GETCO	25/05/2021 to 16/06/2021	23 Days	1	EE
	GETCO	01/06/2021 to 15/06/2021	15 Days	5	EE
	GETCO	02/06/2021 to 16/06/2021	15 Days	1	EE
	GETCO	02/06/2021 to 16/06/2021	14 Days	1	EE
	GETCO	04/06/2021 to 20/06/2021	17 Days	2	EE
	GETCO	08/06/2021 to 22/06/2021	15 Days	1	EE
3	H. H. Industries	28/05/2021 to 11/06/2021	15 Days	3	EE
4	Dudhsagar Dairy	01/06/2021 to 15/06/2021	15 Days	1	EE
5	Saral Engineering Company	01/06/2021 to 15/06/2021	15 Days	1	EE
6	Skyy Rider Institute (Virtual Internship on ‘Electric Vehicle Technology’	01/06/2021 to 14/06/2021	14 Days	2	EE
7	Agharia Electricals Pvt. Ltd.	28/05/2021 to 15/06/2021	19 Days	1	EE
8	Topline Switchgear Pvt Ltd.	26/05/2021	17 Days	1	EE

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
		to 11/06/2021			
9	New Gujarat Sales and Service	28/05/2021 to 13/06/2021	17 Days	1	EE
10	Tesla Power Industries	28/05/2021 to 11/06/2021	15 Days	1	EE
11	Hindustan Electric Motors	01/06/2021 to 16/06/2021	16 Days	1	EE
12	M. B. Powertech	31/05/2021 to 15/06/2021	16 Days	1	EE
13	Ganesh Panel Sales and Service	01/06/2021 to 15/06/2021	15 Days	2	EE
14	Gujarat Control Systems	28/05/2021 to 14/06/2021	18 Days	1	EE
15	Uttar Gujarat Vij Company Ltd.	28/05/2021 to 14/06/2021	18 Days	1	EE
16	Ami Bharat Electric Store	29/05/2021 to 15/06/2021	18 Days	1	EE
17	Narendra Transformers	01/06/2021 to 14/06/2021	14 Days	1	EE

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
1	GMDC	08-02-2021 to 10-03-2021	30	05	Mining Engg.
2	GMDC	01-06-2021 to 15-06-2021	15	04	Mining Engg.
3	Navdurga Quarry Works	01-06-2021 to 15-06-2021	15	02	Mining Engg.
4	Amaranth Quarry Works	01-06-2021 to 15-06-2021	15	01	Mining Engg.

Summary:

Sr. No	Name Of Department	No. Company	No. Student
1	Civil Engineering Department	**26**	**34**
2	Electrical Engineering Department	**17**	**32**
3	Mechanical Engineering Department	**0**	**0**
4	Mining Engineering Department	**4**	**12**
	Total :-	**48**	**78**

I. Industrial Visits

Due to Covid-19 pendamic, it is not possible to arrang the industrial visits

J. 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 Work, Student Training, Industrial Visit
3		Prof. M. N. Prajapati	SAICAD CENTRE 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. A. 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	Caption Pump and Motor	Summer Training
15		Prof. H. V. Hirvaniya	GETCO	Summer Training
16		Prof. H. V. Hirvaniya	H. H. Industries	Summer Training
17		Prof. H. V. Hirvaniya	Dudhsagar Dairy	Summer Training
18		Prof. H. V. Hirvaniya	Saral Engineering Company	Summer Training
19		Prof. H. V. Hirvaniya	Skyy Rider Institute (Virtual Internship on ‘Electric Vehicle Technology’	Summer Training
20		Prof. H. V. Hirvaniya	Agharia Electricals Pvt. Ltd.	Summer Training
21		Prof. H. V.	Topline Switchgear Pvt	Summer Training

Sr. No	Department	Name of Faculty	Name of Industry	Purpose For Association
		Hirvaniya	Ltd.	
22		Prof. H. V. Hirvaniya	New Gujarat Sales and Service	Summer Training
23		Prof. H. V. Hirvaniya	Tesla Power Industries	Summer Training
24		Prof. H. V. Hirvaniya	Hindustan Electric Motors	Summer Training
25		Prof. H. V. Hirvaniya	M. B. Powertech	Summer Training
26		Prof. H. V. Hirvaniya	Ganesh Panel Sales and Service	Summer Training
27		Prof. H. V. Hirvaniya	Gujarat Control Systems	Summer Training
28		Prof. H. V. Hirvaniya	Uttar Gujarat Vij Company Ltd.	Summer Training
29		Prof. H. V. Hirvaniya	Ami Bharat Electric Store	Summer Training
30		Prof. H. V. Hirvaniya	Narendra Transformers	Summer Training
31		Prof. H. V. Hirvaniya	Fortune Panel Systems Pvt. Ltd.	Summer Training
32		Prof. H. V. Hirvaniya	Duke Plasto Technique Pvt. Ltd.	Summer Training
33		Prof. H. V. Hirvaniya	Adaptive Engineering	Summer Training
34		Prof. K. G. Prajapati	Riya Hundai	Placement
35		Prof. M. G. Prajapati	Astech Infratech Pvt. Ltd	Placement
36		Prof. M. G. Prajapati	Vahanvati Engineering Works	Placement
37		Prof. M. G. Prajapati	PGCIL- Mudetha	Visit
38		Prof. J.H.Patel	DGR ENERGY PVT LTD.	Training and Placement
39		Prof. J.H.Patel	Ronak Electric Co.	Training and Placement
40	Mining	Prof. J. V. Modi	GMDC	Industrial Training, Visit and Placement
41		Prof. J. V. Modi	Vedanta Resources	Industrial Training, Visit and Placement
42		Prof. Suraj Kumar	D K Trivedi Marble mines, Ambaji	Industrial Training, Visit and Placement
43		Prof. Suraj Kumar	Green Marble, Ambaji	Industrial Training, Visit and Placement

EXTRA-CURRICULAR ACTIVITES

EXTRA-CURRICULAR ACTIVITES

A. Awareness program on Single use plastic, water conservation and Swachhtaon

Government Engineering College Palanpur, Ek Bharat Shreshtha Bharat (EBSB) unit organised an Awareness program on Single use plastic, water conservation and Swachhtaon 10th February 2021.

The programme began withbrief introduction of Ek Bharat Shreshtha Bharat. Students were made aware with EBSB and the activities going to be performed under EBSB. Dr. K. B. Judal the principal of the institute motivated and inspired students to take part in the different activities of EBSB.

Prof. H. U. Patel, delivered the talk on Single use plastic its impact on environment. Prof. R. K. Rathod also briefed students about importance of water on earth and its conservation. At last, Dr. C. G. Prajapati aware the students regarding swatchhta. All the professors and students took an oath of cleanliness. This programme ran almost for an hour. The programme ended withProf. D. A. Patel's vote of thanks to all the participants of the programme.

B. NEP 2020

Government Engineering College, Palanpur arranged a webinar on 30th March 2021 on Tuesday. In a Panel discussion different points of NEP 2020 was discussed by penalist. More than 200 Students of the institute and all the Faculty members participated in the webinar. The main purpose of the webinar is disseminating NEP 2020 among the faculty and stuents for spreading awareness in society. The points of NEP 2020 have been discussed as per following details.

Dr. C G Prajapati, HOD of Humanities and Science Department handled the webinar and give an introduction part and purpose of NEP 2020. Dr. A M Patel Assistant Professor Electrical Department detailing the main part of NEP 2020 (5+3+3+4). Prof. B R Patel HOD of Electrical Engineering Department explaining the Graduation and Academic credit bank system. Dr. J A Vadher HOD of Mechanical Engineering Department briefing the New concept of University in NEP 2020.Prof. P C Vasani HOD of Civil Engineering Department explaining the How to implement NEP 2020.

At the end of webinar Principal of Institute Dr. K B Judal Conclude the webinar with what of thanks of participants

C. National Day Celebration

15TH AUGUST 2019

India celebrated its 72nd Independence Day on this August 15, 2020. Government Engineering College Palanpur celebrated Independence Day of India with great enthusiasm and patriotic fervour. On the morning of August 15, 2020, our student-teachers conveyed their greetings to each other.

The programme College 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, songs and dance. 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.

Due to COVID-19 pandemic only faculty members have participated the program to make the event successful.

26th JANUARY 2019

GECPL witnessed the celebration of the 72nd Republic Day on the 26th January, 2021. 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 staff members for bringing more laurels for the college through their accomplishments. The speech was followed by the National Anthem giving a glimpse of the diversity in unity of the nation and the Guard of Honour.

Due to COVID-19 pandemic only faculty members have participated the program to make the event successful.

D. NSS Activities

1. Road Safety Awareness

Government Engineering College, Palanpur National Service Scheme(NSS) Unit Organize "Road Safety Awareness". The purpose behind this seminar is to aware students about the importance of value life, when they drive vehicles beyond speed limit.
The "Road Safety Awareness" program is Jointly organized by RTO Office, Traffic Police Banaskantha and NSS Unit. Main speaker of the seminar is Mr. Vishnubhai, Road safety Trainer from Axat seva Trust, Banaskantha. And Mr. Ankitbhai N Panchal, RTO Inspector and Mr. D D Modi, RTO Inspector The program and Mr. H B Parmar, City Traffic, Palanpur City, Banaskantha. Dr. K B Judal (Principal) and Dr. C G Prajapati (NSS PO) are also present in this seminar.
Dr. K B Judal, Principal GEC, Palanpur deliver an introductory part of the seminar. Mr. Vishnubhai deliver a talk about the rules should be followed by the drivers when driving vehicles on the road. Mr. D D Modi explain about the importance of life with this quotation "Be Late then Never". They also explain about the safety measures should be keep in mind at the time of Driving.
There will be also question –Answering sessions after the end of the seminar. Experts can solve the queries of the students about the Road safety


A Seminar on Traffic Awareness
National Service Scheme


A Seminar on Traffic Awareness
National Service Scheme

2. Covid 19 awarenes IEC:

સરકારી ઇજનેરી કોલેજ, પાલનપુર એન.એસ.એસ. યુનીટ દ્વારા તા. ૧૭-૧૦-૨૦૨૦ ના રોજ કોવીડ-૧૯ સામેની લડાઈમાં અત્રે ની સંસ્થા ના તમામ સ્ટાફ ગણ તથા વિધ્યાર્થીઓ માં કોવિડ ૧૯ અંતર્ગત ની જાગૃતી ફેલાય તથા સવચેતી ના ભાગ રુપે નીચેના અગત્ય ના મુદ્દાઓ ને આવરી લઈ

વેબીનાર નુ આયોજન કરેલ હતુ. જેમા સંસ્થા ના તમામ સ્ટાફ ગણ તથા વિધ્યાર્થીઓ IEC (Information Education Communication) મુજબ નીચેની બાબતોનું પાલન કરે તે માટે એક short film નુ પણ નિદર્શન કરવામાં આવેલ.

· Mask
· Social Distancing.
· Hand Hygiene
· Immunity Boost-up Practices
· Reverse Quarantine

જેવા અગત્યના મુદ્દાઓ ની માહીતી આપી જાગ્રુતી ફેલાવવા મા આવેલ


Doctor
Zeeshan

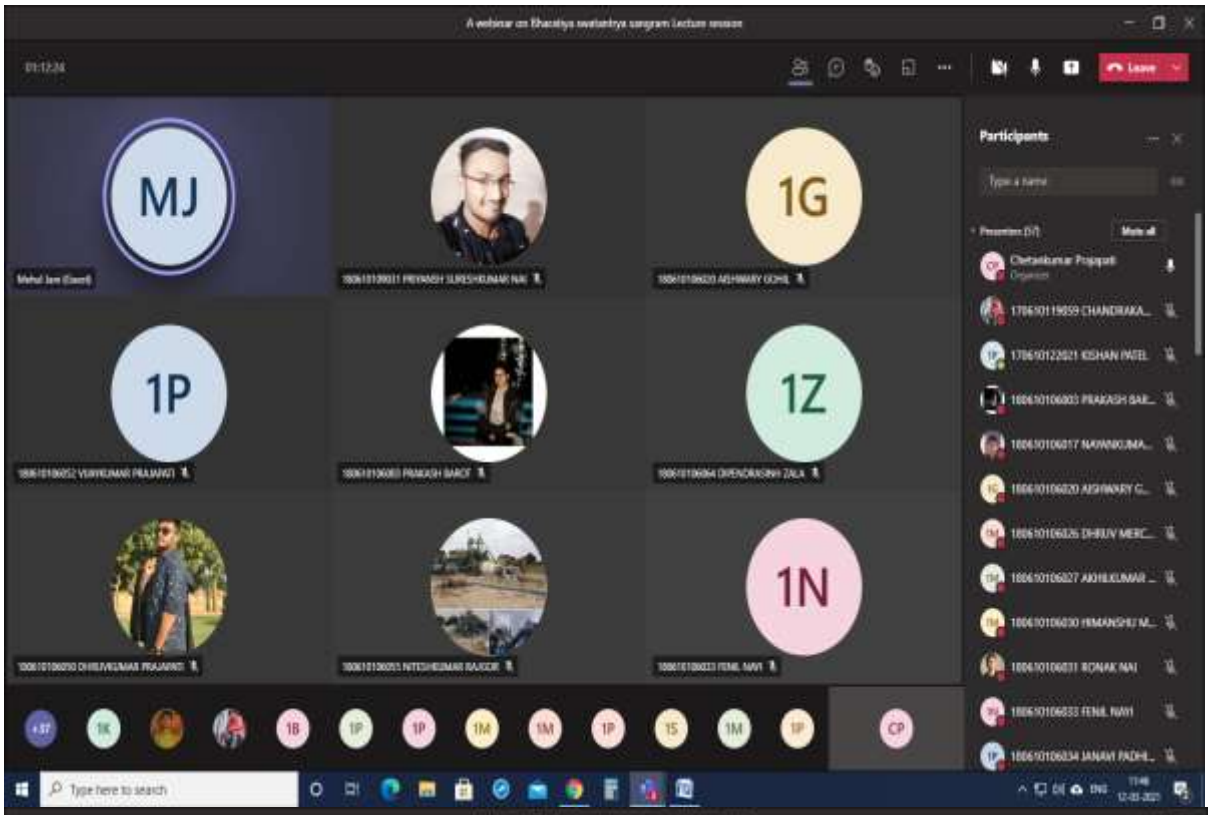

Corona Virus Awareness short Film | Part 1 |Awareness 2020
14:53 / 15:28
Scroll for details

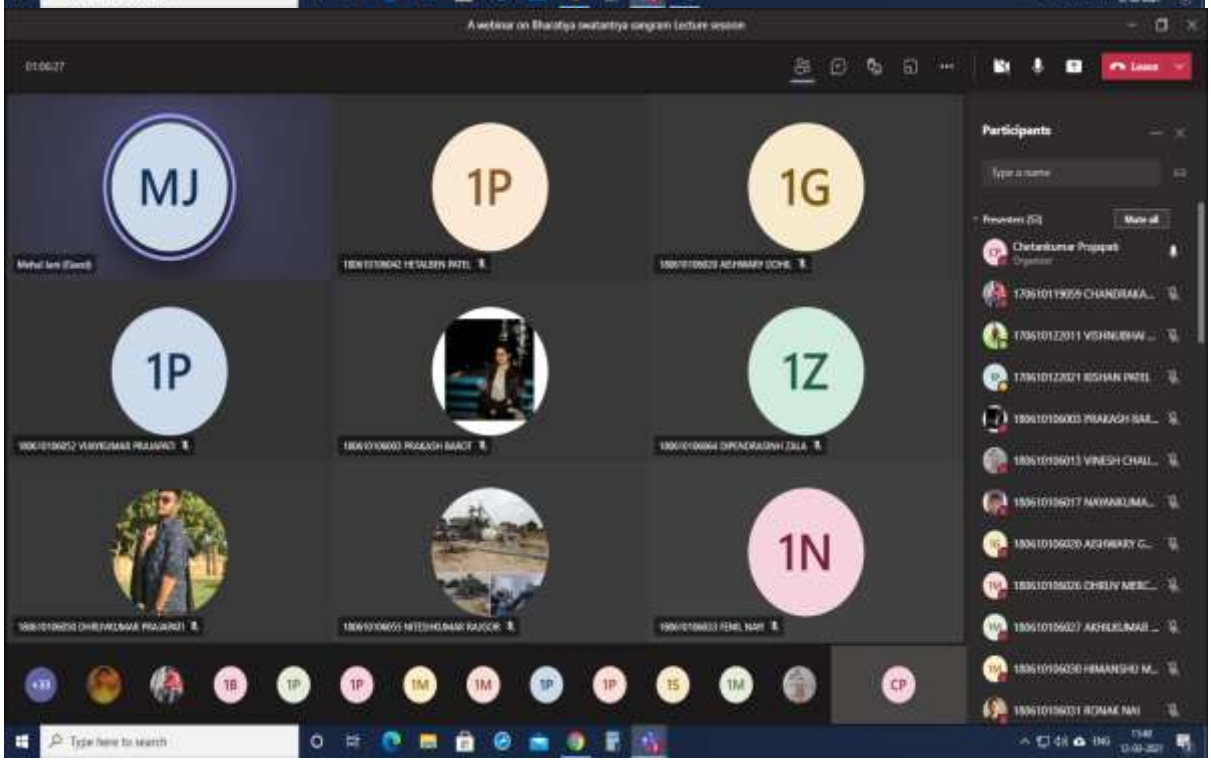
3. Azadi na Amrut Mahotsav

Government Engineering College, Palanpur NSS Unit arranged a webinar on "India's Freedom Fighter" as a celebration of "Azadi na Amrut Mahotsav" and as a part of this celebration Our Prime minister started the Dandi March on 12th March 2021. Institute invited Prof. Mehul N. Jani (Assistant Professor in History) from DNP arts and Commerce college, Deesa as a speaker to deliver the session on "India's Freedom Fighter". Speaker explained and aware the students by delivering the talk about contribution of freedom fighters (Mahatma Gandhi, Sahid Bhagatsinh, Rajguru, Sukhdev, Chandrasekhar Azad etc…) for Independence of the country. Institute Faculty members and students joined in this webinar and benefited by the webinar.

Speaker also delivered a talk on "Dandi March Ek Sankalp" which was initiated under the leadership of Mahatma Gandhi and their followers. He also explains the history and impact of Dandi march on British Rulers.

At the end of the webinar, Prof. C G Prajapati (NSS Program Officer) conclude the webinar with vote of thanks.


A webinar on Bharatiya swatantrya sangram Lecture session
MJ
1G
1P
1Z
1N
Participants


A webinar on Bharatiya swatantrya sangram Lecture session
MJ
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1G
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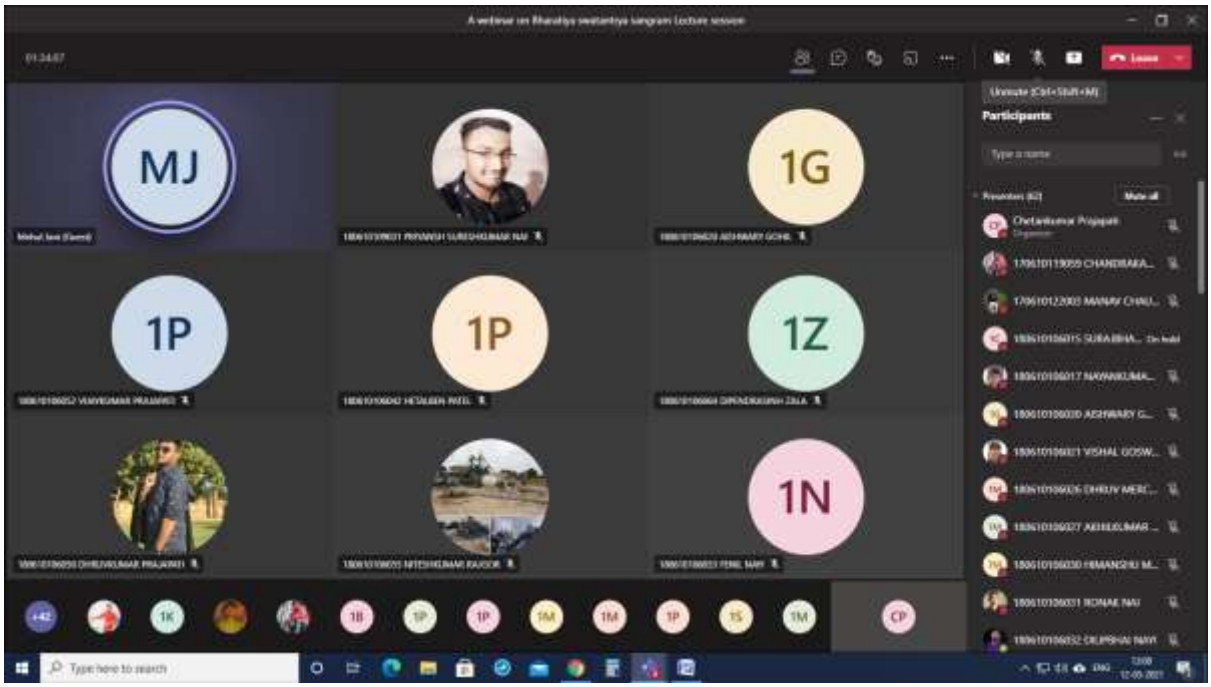
Participants


MJ
1G
1P
1P
1Z
1N
Participants

STUDENT ACTIVITIES

STUDENT ACTIVITIES

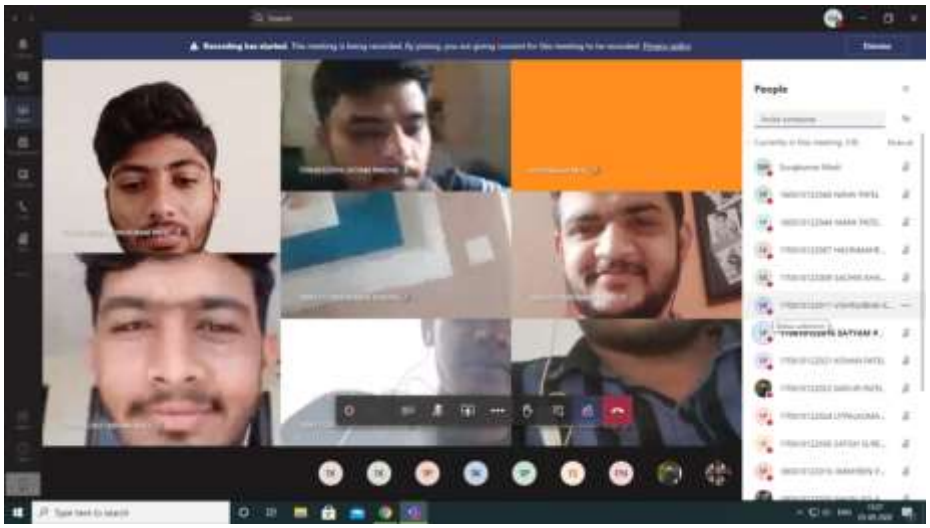
A. Teachers' Day Celebration

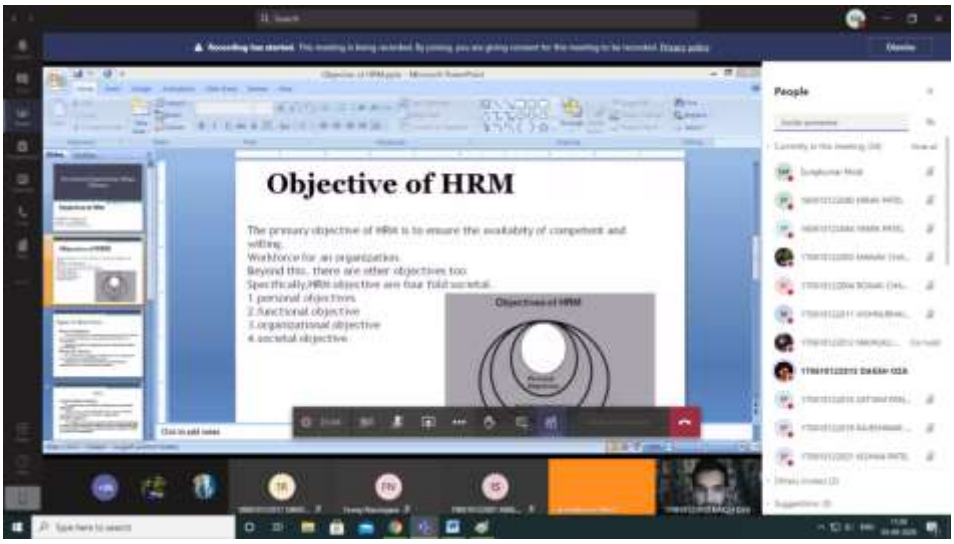
Teachers' Day is a special day for the appreciation of teachers, and may include celebrations to honor them for their special contributions in a particular field area, or the community in general. The Day is celebrated every year on the 5th of September, which also marks the birth anniversary of Dr Sarvepalli Radhakrishnan, who was an Indian philosopher and the second President of India.

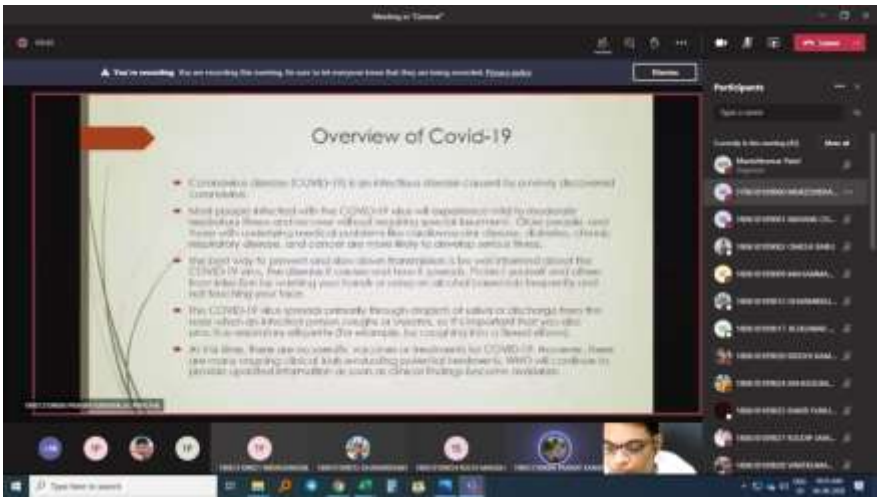
Every year on 5th September Teachers' Day is celebrated at this institute. Due to covid-19 pandemic, this year the celebration did by online platform-Microsoft Teams. Students of 2nd, 3rd and 4th year have participated in the event. According to area of their interest, Teaching slots are prepared and they delivered it.

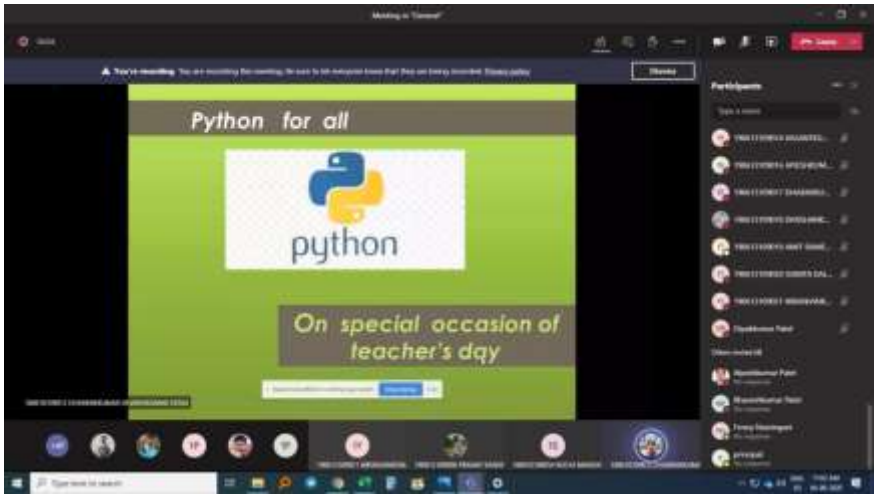
This report consist the details of participants, topics delivered and the winners. The winners were felicitated by trophies and each participant was given certificate. The number of student participated (Total-38) in the event are as per the following table:

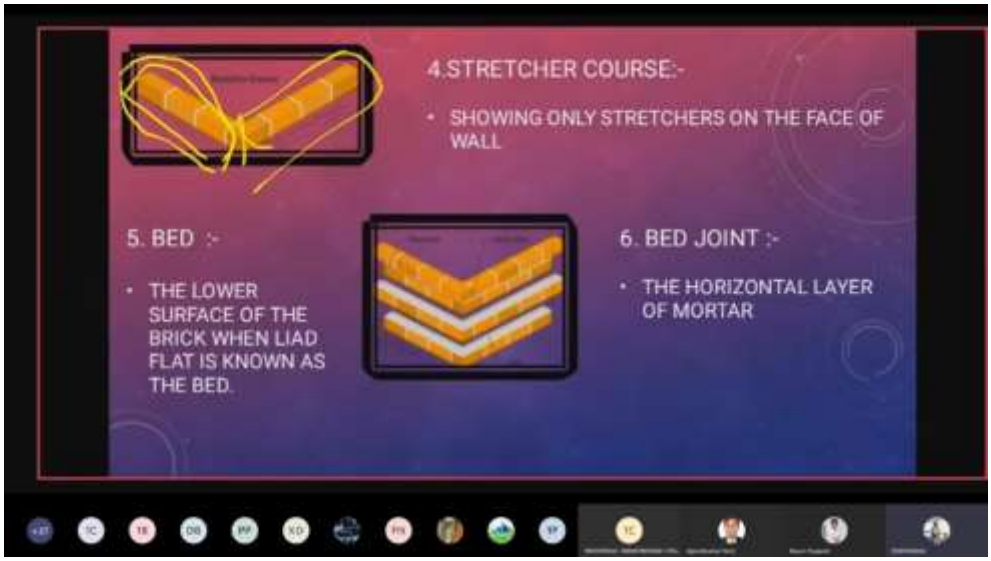
	Sem-3	Sem-5	Sem-7	Total
Civil	**02**	**03**	**00**	**05**
Mechanical	**00**	**02**	**01**	**03**
Electrical	**05**	**03**	**08**	**16**
Mining	**01**	**07**	**06**	**14**

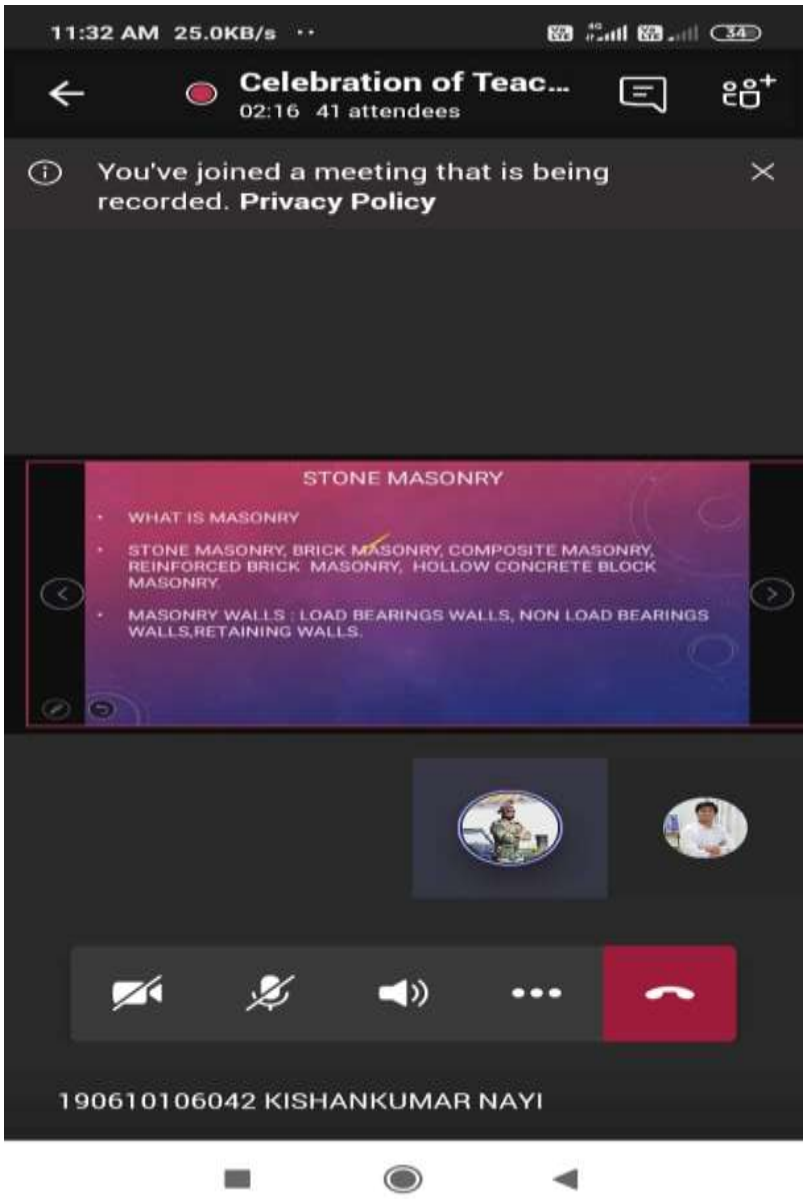



Objective of HRM
The primary objective of HRM is to ensure the availability of competent and willing
Workforce for an organization.
Beyond this, there are other objectives too.
Specifically,HRM objective are four fold societal.
1.personal objectives
2.functional objective
3.organizational objective
4.societal objective
People


Overview of Covid-19


Python for all
python
On special occasion of teacher's day


4.STRETCHER COURSE:-
• SHOWING ONLY STRETCHERS ON THE FACE OF WALL
5. BED :-
• THE LOWER SURFACE OF THE BRICK WHEN LIAD FLAT IS KNOWN AS THE BED.
6. BED JOINT :-
• THE HORIZONTAL LAYER OF MORTAR



List of participated Students

Sr. No.	Name	Enrolment No.	Branch	Sem
1	Chiragkumar Joshi	190610109009	Electrical	03
2	Hitendrakumar Jaganiya	190610109008		
3	Prerna Sharma	190610109029		
4	Ayaz Kureshi	190610109012		
5	Harsh Kumar(Winner)	190610109011		

6	Dharmikkumar Devangkumar Desai(Winner)	180610109012		05
7	Ruchi Manishkumar Sadhu	180610109054		
8	Pranay Kanaiyalal Panchal	190613109006		
9	Joshi Jeet Nayankumar	170610109009		07
10	Joshi Keshav Satyanarayan	170610109010		
11	Patel Abhi Nikulkumar(Winner)	170610109027		
12	Pathak Dhruv Arvindbhai	170610109036		
13	Rathod Sagar Devidas	170610109047		
14	Verma Ravi	170610109061		
15	Kadri Mohammadrahil M.	180613109003		
16	Valia Viraj Vallabhbhai	180613109013		
17	Ankleshwar Kumar Saw(Winner)	190160122007	Mining	03
18	Ritik Berwa	180610122001		05
19	Rishabh Patel	170610122023		
20	Daksh Oza	170610122013		
21	Manav Chaudhary	170610122003		
22	Jay Thakur	170610122032		
23	Jimmy Patel(Winner)	180610122010		
24	Nirav Patel	160610122040		07
25	Naman Pandya	180613122004		
26	Kishan Patel	170610122021		
27	Sachin Khatri(Winner)	170610122009		
28	Yamik Patel	160610122044		
29	Satyam Pandya	170610122016		
30	Vishnu Koli	170610122011		
31	Singh Rohankumar Ajaykumar(Winner)	180610119056		

32	Gosai Vaibhavgiri Bhaveshgiri	190613119003	Mechanical	05
33	Rupesh Kumar Singh(Winner)	170610119053	Mechanical	07
34	Kishankumar Nayi(Winner)	190610106042	Civil	03
35	Dakshkumar Patel	190610106052		
36	Prajapati Pankajkumar Dineshbhai	190613106006	Civil	05
37	Vijaya Kaleshriya	180610106023		
38	Thumar Binal Hareshbhai(Winner)	190613106008		

B. Navratri Mahotsav

Navratri mahotsav 2020 was not possible to celebrate due to covid-19 pandemic

C. PRAXES

Due to COVID-19 situation during (March 2021), annual Cultural and Technical Event (Praxes 2K21) was cancelled.

D. Sport Week

Due to COVID-19 situation during (March 2021), Sport Event was not organized.

E. Documentry 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

ADMINITRATIVE/ACADEMIC STAFF DEVELOPMENT

ADMINITRATIVE/ACADEMIC STAFF DEVELOPMENT

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 & 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
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)	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	R. K. RATHOD	M.E. (WRM)	Water Resource Management	Assistant Professor	21-10-2014	-	Contract
10	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 (2020-21)	CAYm1 (2020-21)
1.	Professor	1	1
2.	Associate Professor	0	0
3.	Assistant Professor	9	9
4.	Number of Ph.D	2	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	**2020- 2021**
u1	82
u2	63
u3	54
Total No. of Students in the Department (S)	**199**
No. of Faculty in the Department (F)	**09**
Student Faculty Ratio (SFR)	**SFR1=22.11**

Faculty Cadre Proportion:

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

F1: Number of Professors required = 1/9 x 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 x 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 x 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
2020-2021	1	1	3	0	8	9

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					

Dr. G. M. SAVALIYA	Asst. Prof.	B.E. Civil (S.S.E.C, Bhavnagar) - 2006	M.Tech. CASAD (Nirma University) - 2009	PhD. Civil (SVNIT) - 2016	Structural Engineering	18-05-2011	14	NIL	NIL
V. R. SHARMA	Asst. Prof.	B.E. Civil (MBM Engineering College, Jodhpur), 2007	M.Tech. Structural Engineering (Malaviya National Institute of Technology, Jaipur), 2009	Ph. D in Civil Engineering (MNIT, Jaipur),	Structural Engineering, Earthquake Engineering	10-05-2011	08	NIL	NIL
P. C. VASANI	Professor	B.E., Civil Engineering, L. D. College of Engg., Ahmedabad - 1983	M.E. CASAD, L. D. College of Engg.. Ahmedabad - 2001	NIL	Structural Engineering	02-06-2018	NIL	NIL	NIL

H. U. PATEL	Asst. Prof.	B.E. Civil (DDU Nadiad), 2011	M.E. Civil (GTU), 2013	NIL	Transportation Engineering	01/07/2017	NIL	NIL	NIL
V H KHOKHANI	Asst. Prof.	BE GU 2009	ME GTU 2012	NIL	Water Resource Management	21/11/2020	05	NIL	NIL
S. G. CHAUHAN	Asst. Prof.	B.E. Civil (Gujarat University), 2010	M.Tech Urban Planning (SVNIT) - 2013	NIL	Urban Planning	01/07/2017	NIL	NIL	NIL

Y. J. CHAUHAN	Asst. Prof.	B.E., Civil Engineering, L. D. College of Engg., Ahmedabad -2011	M.E. CASAD, L. D. College of Engg.. Ahmedabad - 2014	NIL	Structural Engineering	11-07-18	NIL	NIL	NIL
N. R. KOTIYA	Asst. Prof.	B.E. Civil (DDUNadiad), 2010	M.E. Geotech, L. D. College of Engg.. Ahmedabad - 2013	NIL	Geotechnical Engineering	11-07-18	NIL	NIL	NIL

R. K. RATHOD	Asst. Prof.	B.E., Civil Engineering, L. D. College of Engg., Ahmedabad - 2006	M.E. WRM, L. D. College of Engg.. Ahmedabad - 2010	NIL	Water Resource Management	21-10-2014	NIL	NIL	NIL
M. N. PRAJAPATI	Asst. Prof.	B. E. Civil Engineering Gujarat Technological University, Ahmedabad, 2014	M. E. Structural Engineering Gujarat Technological University, Ahmedabad, 2016	NIL	Structural Engineering	28-10-2016	NIL	NIL	NIL

C. Faculty/staff training/seminar/conferences

Faculty name	Title of the training	Specify other	From	To
Prof. P C Vasani	Comprehensive Online Intellectual Property Rights (Ipr)	i-Hub, Gujarat	6-7-2020	14-9-2020
	E-Content Development Course	UDAYAM, KCG, Gujarat	27-7-2020	8-8-2020
Prof.G. M. Savaliya	Accreditation for Undergraduate Engineering Programmes	Swayam MOOC NITTTR Bhopal	27-1-2020	20-4-2020
	AICTE Training And Learning (ATAL) Academy Online FDP on "Infrastructure Engineering	Birla Vishvakarma Mahavidyalaya	12-10-2020	12-10-2020
	Linear Regression and Modeling	Duke University	-	-
	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	i-Hub, Gujarat	6-7-2020	14-9-2020
	Effective Writing	SWAYAM, NPTEL IITR	18th Jan 2021	12th Feb 2021
Prof. H.U.Patel	Comprehensive Online Intellectual Property Rights (Ipr)	i-Hub, Gujarat	6-7-2020	14-9-2020
Prof. V. H. Khokhani	Comprehensive Online Intellectual Property Rights (Ipr)	i-Hub, Gujara	6-7-2020	14-9-2020
Prof. V. H. Khokhani	NBA Webinar	Education Department	06th March 2021	06th March 2021
Prof. S.G.Chauhan	Comprehensive Online Intellectual Property Rights (Ipr)	i-Hub, Gujarat	6-7-2020	14-9-2020
	Managerial skills for academicians and administrators	NITTTR Bhopal	5-10-2020	16-10-2020
Dr.V. R. Shrama	Introduction To Soft Computing	SWAYAM, NPTEL IITKH	18th Jan 2021	21st March 2021
Prof. Y.J.Chauhan	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	i-Hub, Gujarat	6-7-2020	14-9-2020

	Strength Of Materials	Swayam MOOC IIT Kharagpur	14-9-2020	4-12-2020
	Matrix Method of Structural Analysis	Swayam MOOC IIT Kharagpur	14-9-2020	4-12-2020
	Earthquake Resistant Design of Foundations	Swayam MOOC IIT Roorkee	14-9-2020	4-12-2020
	Dynamics of Ocean Structures	Swayam MOOC IIT Madras	14-9-2020	4-12-2020
	Computer Methods Of Structural Analysis Of Offshore Structures	Swayam MOOC IIT Madras	14-9-2020	4-12-2020
	Introduction To Soft Computing	SYAWAM, NPTEL IITKH	18th Jan 2021	21st March 2021
Prof. N.R.Kotiya	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	i-Hub, Gujarat	6-7-2020	14-9-2020
	Accreditation for Undergraduate Engineering Programmes	Swayam MOOC NITTTR Bhopal	27-1-2020	20-4-2020
	E-Content Development course	UDAYAM, KCG, Gujarat	27-7-2020	8-8-2020

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

Name of faculty	CAYm2 (2020-21)				CAYm1 (2019-20)				CAY (2018-19)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
Dr. V. R. Sharma	2	-	-	-	1	-	5	-	-	-	2	-
Prof. G.M. Savaliya	-	-	3	-	-	-	-	-	4	-	-	-
Sum	2	-	3	-	1	-	5	-	4	-	2	-
A.Y. Sum	5				6				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
2020-21	-	3	-	2	5
2019-20	-	5	-	1	6
2018-19	-	2	-	4	6
total	-	10	-	7	17
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
Invited Faculty					
-	-	-	-	-	-
Internal Faculty					
-	-	-	-	-	-

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

Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
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 (2020 – 2021)	Year II (2019 – 2020)	Year III (2018 – 2019)	Year IV (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	Civil	Prof V H Khokhani	AP	Transfer from L E 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 M 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 (2020-21)	CAYm1 (2019-20)
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 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	2020-2021
u1	66
u2	66
u3	72
Total No. of Students in the Department (S)	**204**
No. of Faculty in the Department (F) (Excluding First Year Faculty)	**07**
Student Faculty Ration (SFR)	**SFR1=29.14**

Table: A

Faculty Cadre Proportion:

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

F1: Number of Professors required = 1/9 x 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 x 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 x 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	Availabl e	Required	Available	Required	Available
2020-2021	1	0	0	0	1	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					

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

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

B. Faculty/staff training/seminar/conferences.

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1	Prof. B. R. Patel	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
2	Prof. B. R. Patel	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
3	Dr. A. M. Patel	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
4	Dr. A. M. Patel	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
5	Dr. A. M. Patel	Elements of Solar Energy Conversion	NPTEL, IIT Kanpur	18/01/2021	09/04/2021	
6	Prof. H. N. Chaudhari	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
7	Prof. H. N. Chaudhari	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
8	Prof. H. V. Hirvaniya	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
9	Prof. H. V. Hirvaniya	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
10	Prof. H. V. Hirvaniya	Nurturing Innovation and Startup Ecosystem	Gujarat Student Startup and Innovation Hub	08/09/20	24/10/20	

		(NISE)				
11	Prof. K. G. Prajapati	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
12	Prof. K. G. Prajapati	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
13	Prof. M. G. Prajapati	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
14	Prof. M. G. Prajapati	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
15	Prof. M K Patel	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
16	Prof. M K Patel	UDAYAM (Unlimited Digital Advanced Yearlong Academic Method)	KCG, Gujarat	28/07/20	18/08/20	
17	Prof. M K Patel	Nurturing Innovation and Startup Ecosystem (NISE)	Gujarat Student Startup and Innovation Hub	08-09-20	23-10-20	
18	Prof. M K Patel	ANSYS HFSS	Khodiyar CAD Center India Pvt Ltd	13-08-20	13-08-20	
19	Prof. M K Patel	ANSYS EM	Khodiyar CAD Center India Pvt Ltd	17-08-20	17-08-20	
20	Prof. J H Patel	Comprehensive Online Intellectual Property Rights (IPR)	i-HUB, Gujarat	06/07/20	14/09/20	
21	Prof. J H Patel	UDAYAM (Unlimited Digital Advanced	KCG, Gujarat	28/07/20	18/08/20	

		Yearlong Academic Method)				

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

Name of faculty	CAYm2 (2018-19)				CAYm1 (2019-20)				CAY (2020-21)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
Prof. A. M. Patel	0	1	2	0	1	0	2		0	0	1	0
Sum	0	1	2	0	1	0	2	0	0	0	0	0
AY Sum	3				3				1			

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 (2018-19)	0	1	1	2	3
CAYm1 (2019-20)	0	2	0	1	3
CAY (2020-21)	0	1	0	0	1
Total	0	4	1	3	7
Patents filed	0	0	0	0	0

D. Invited talks/lectures delivered

Sr. No.	Date / Year	Names of resource persons	Back ground industry/academic /R&D	Topics covered	No. of Beneficiaries
Invited Faculty					
1	19/09/2020	Mr. Maulik Dave	Industy	Substation Design	52
2	17-10-2020	Prof. Dhaval Patel	Assistant Professor, LDCE, Ahmedabad	"Elementary Control Problems and their Solution"	27

3	17-10-2020	Prof. Chintan Patel	Assistant Professor, GHCET, Vallabh Vidyanagar	"Power System Protective Relaying and short circuit calaculations "	58
4	29-10-2020	Dr. Krunal C. Suthar	Assistant Professor, GEC,Patan	GUI Management in Python Programming	10
Internal Faculty					
1	08/06/2021	Dr. A. M. Patel	Academic	Solar Rooftop System Design and Applications	36
2	09/06/2021	Dr. A. M. Patel	Academic	Design specification of Solar PV System	36

E. Research projects/COE/Labs/Training seminar organized

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

F. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

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

G. 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 &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. A B Patel	ME-Mechanical	Heat Power	Assistant Professor	10/12/2013	-	Regular
4	Prof. V D Patel	ME-Mechanical	JP&GTP	Assistant Professor	16/06/2016	-	Regular
5	Prof.S.K.Dabhi		SOLAR ENERGY, IC ENGINE, AUTOMOBILE	Assistant Professor		-	Regular
6	Prof. N A Patel	M.Tech. Mechanical	CAD/CAM	Assistant Professor	09/05/2011	-	Regular
7	Prof. A D Patel	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
8	Prof.V.K.Patel	ME-Mechanical	Machine Design	Assistant Professor		-	Regular
9	Prof. A R Chaudhari	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
10	Prof. P N Boka	M.Tech. Mechanical	Design Engineering	Assistant Professor	19/04/2011	-	Regular
11	Prof. A. K. Patel	M.Tech. Mechanical	Advanced Manufacturing Techniques	Assistant Professor	04/02/2012	-	Regular
12	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 (2020-21)	CAYm1 (2019-20)
1.	Professor	2	2
2.	Associate Professor	0	0
3.	Assistant Professor	10	8
4.	Number of Ph.D	2	2

Detail of Head of the Department for the program:

Name: Prof. J. A. Vadher
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	2020- 2021
u1	69
u2	50
u3	57
Total No. of Students in the Department (S)	**176**
No. of Faculty in the Department (F)	**8**
Student Faculty Ration (SFR)	**SFR1=22**

Faculty Cadre Proportion:

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

F1: Number of Professors required = 1/9 x 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 x 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 x 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
2020-2021	1	1	2	0	6	10

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		
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					
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. GANPAT 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-2008	M.Tech -IITB-2015	PUR	DESIGN ENGINEERING	25/09/08	1		
A.K. Patel	ASST. PROF.	B.E. HNGU 2002	M.Tech GANPAT UNI	PUR	AMT	04/02/12	-		

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						
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	Dr. K. B. Judal	UDAYAM (Unlimited Digital Advanced Yearlong Academic	ONLINE(KCG & Education Department)	28-07-2020	18-08-2020	
2	Dr. K. B. Judal	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY	ONLINE (I-Hub and Education Department)	06-07-2020	14-09-2020	
3	Dr. Jeetendra A. Vadher	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	
4	Dr. Jeetendra A. Vadher	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and HRDC, Gujarat University	28-07-2020	18-08-2020	

5	Prof.A.B.Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	
6	Prof.A.B.Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and	28-07-2020	18-08-2020	
7	Prof.A.B.Patel	Research Methodology and Technical Writing	Dr. S.& S.S. Ghandhy Government Engineering	01/12/2020	05/12/2020	
8	Prof.V.D.Patel	COMPREHENSIVE ONLINE INTELLECTUAL	Gujarat Student Startup and Innovation Hub (i-	6/7/2020	14/9/2020	
9	Prof.V.D.Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and	28-07-2020	18-08-2020	
10	Prof.V.D.Patel	"Futuristic Innovations on Solar Energy	GEC, PATAN	8/2/2021	12/02/2021	
11	Prof.N.A.Patel	Comprehensive Online Intellectual Property Rights (Ipr)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	
12	Prof.N.A.Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and	28/7/2020	18/8/2020	
13	Prof.N.A.Patel	NURTURING INNOVATION AND STARTUP ECOSYSTEM	Gujarat Student Startup and Innovation Hub (i-hub)	8/9/2020	23/10/2020	
14	Prof.N.A.Patel	Recent Trends in Advanced Manufacturing Processes	L E College of Engineering, Morbi	5/4/2021	9/4/2021	
15	Prof.A.D.Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	

16	Prof.A.D.Patel	ADVANCES IN MANUFACTURING (AIM 2.0)	SVNIT, Surat	5/10/20	9/10/20	
17	Prof.A.D.Patel	online UHV Refresher 1 FDP	AICTE	23/11/20	27/11/20	
18	Prof.A.D.Patel	Fundamental of Welding Science and Technology	NPTEL (MOOC)	jan-2021	march-2021	
19	Prof. V. K. Patel	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and	28/7/2020	18/8/2020	
20	Prof. V. K. Patel	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	
21	Prof. A R Chaudhari	COMPREHENSIVE ONLINE INTELLECTUAL PROPERTY RIGHTS (IPR)	Gujarat Student Startup and Innovation Hub (i-hub)	6/7/2020	14/9/2020	
22	Prof. A R Chaudhari	UDAYAM E-Content Development Course	Knowledge Consortium of Gujarat, Ahmedabad and	28/7/2020	18/8/2020	
23	Prof. A R Chaudhari	NURTURING INNOVATION AND STARTUP ECOSYSTEM	Gujarat Student Startup and Innovation Hub (i-hub)	8/9/2020	23/10/2020	
24	Prof. A R Chaudhari	Introduction to Abrasive Machining and Finishing Processeas	IIT, Tirupati	Jan-2021	March-2021	
25	Prof.P.N.Boka	Futuristic Innovations on Solar Energy Technologies	GEC, PATAN	8/2/2021	12/02/2021	

26	Prof.P.N.Boka	GREEN MANUFACTURING PROCESSES	GEC, GANDHINAGAR	30/01/2021	30/01/2021	
27	Prof.P.N.Boka	Renewable and Sustainable Carbon Capture And Conversion	QATAR UNIVERSITY, QATAR	18/02/2021	18/02/2021	
28	Prof.P.N.Boka	GUJCOST sponsored 1st International Conference on Recent Progress in	GEC, GANDHINAGAR & GEC, PATAN	28/05/2021	29/05/2021	

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

Name of faculty	CAYm1 (2018-19)				CAY (2019-20)				CAY (2020-21)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
KBJ	1	0	0	0	1	0	2	0	2	0	0	0
JAV	1	0	0	0	2	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
NAP	0	0	0	0	0	0	0	0	4	0	0	0
ADP	0	0	0	0	0	0	0	0	1	0	1	0
ARC	0	0	0	0	0	0	0	0	1	0	0	0
PNB	0	0	0	0	0	0	0	0	0	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	2	0	0	0	3	0	3	0	9	0	2	0
AY Sum	2				6				11			

PATENT PUBLISHED

Name of staff	Title	TYPEl	Month & Year of publication	
A. D. Patel	Multicutter Groove Cutting Machine (MGCM)	Patent	March-2021	Application no. - 202121012147
A. D. Patel	Two piece plus type cruci-trap welded joint (CTWJ)	Patent	June-2021	Application no. - 202121022448

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 (2020-21)	0	1	0	9	10
CAY m1 (2019-20)	0	3	0	3	6
CAYm2 (2018-19)	0	0	0	2	2
Total	0	4	0	14	18
Patents filed	-	-	-	-	2

E. Invited talks/lectures delivered: Deptt. Wise

Sr. No.	Date / Year	Names of resource persons	Back ground industry/academic /R&D	*Topics covered*	No. of Beneficiaries
Invited Faculty					
1	03/10/2020	Dr. D. S. Mehta	Academic	Influence of Orientation on Thermal Performance of Shell and Tube Type Latent Heat Storage Unit	90
2	06/10/2020	Dr. J. R. Patel	Academic	Computer Aided Thermal System Analysis	52
3	7/10/2020	Mr. Anup Goel	Managing Director of Anup Goel Engineering study center	Dynamics of Machinery	80
4	14/10/2020	Prof. Anand S Patel	Academic	ZED Maturity Assessment tool- An Introduction	

5	19/10/2020	Dr. J. P. Patel	Academic	Effective Utilization of Resources by Implementing ASRS in Industeries	53
6	20/10/2020	Prof. V. D. Patel	Academic	Sensor and Actuator for Automation	60
7	28/09/2020	Dr. J. R. Patel	Academic	Thermal Energy Storage in Phase Change Material (PCM)	48
8		Dr. J. R. Patel	Academic	"Research and Applications of Thermal Engineering	
9		Dr. D. J. Parmar	Academic	Fundamentals of Gas Dynamics	

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

Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2020-2021	9	-	-	9
2019-2020	4	1	-	5
2018-2019	2	-	-	2

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

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

Schemes	Number of faculty members deputed during last 3 years.		
	Year II (2020 – 2021)	**Year II (2019 – 2020)**	**Year III (2018 – 2019)**
Training/Conferences	23	17	7

H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
1	Mechanical	Prof. S K DAbhi	Asst. Prof.	Trasnfer
2	Mechanical	Prof. V K Patel	Asst. Prof.	Transfer

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 & 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	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 (2020-21)	CAYm1 (2019-20)
1.	Professor	0	0
2.	Associate Professor	0	0
3.	Assistant Professor	3	2
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	2020- 2021
u1	65
u2	62
u3	66
Total No. of Students in the Department (S)	193
No. of Faculty in the Department (F)	3
Student Faculty Ratio (SFR)	SFR1=64.3

Faculty Cadre Proportion:

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

F1: Number of Professors required = 1/9 x 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 x 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 x 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
2020-2021	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	Comprehensive Online IPR	i - Hub, Gujarat (online mode)	06-07-2020	14-09-2020
J.V.Modi	Comprehensive Online IPR	i - Hub, Gujarat (online mode)	06-07-2020	14-09-2020
Suraj Kumar	UDAYAM	Knowledge Consortium of Gujarat (online mode)	28/07/2020	18/08/2020
J.V.Modi	UDAYAM	Knowledge Consortium of Gujarat (online mode)	28/07/2020	18/08/2020
J.V.Modi	Nurturing Innovation and Startup Ecosystem (NISE)	i - Hub, Gujarat (online mode)	08/09/2020	23/10/2020
J.V.Modi	Tools and Trends in online Education System	GUJCOST online FDP, Elect. Deptt., GP	15/02/2021	19/03/2021

		Palanpur		
Suraj Kumar	Outcome Based Education and Accreditation	NBA Awareness Webinar	06-03-2021	06-03-2021

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

Name of faculty	CAYm2 (2020-21)				CAYm1 (2019-20)				CAY (2018-19)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
J.V.Modi	-	-	-	-	-	-	-	-	-	1	-	-
Suraj Kumar	-	-	-	-	-	-	-	-		-	-	-
Sum	-	-	-	-	-	-	-	-		1	-	-
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
2020-2021	--	--	--	--	--
2019-2020	--	--	--	--	--
2018-2019	--	--	01	--	01
total	--	--	01	--	01
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	15-09-2020	Mr. Aarif Shaikh Assistant Mining Engineer Khanij Bhawan,	Industry	Engineers' Day	38

		Shastri Circle, Udaipur			
2	29-09-2020	Mr. G Ram Senior controller of mines, IBM	Industry	Mine Legislation	38
3	21-10-2020	Mr. Suresh Matariya GMDC	Industry	Mine Legislation	38

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

Seminars/Workshops/Conferences

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

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2020 – 2021)	Year II (2019 – 2020)	Year III (2018 – 2019)	Year IV (2017 – 2018)
QIP/Study leave	0	0	0	0
Seminars/workshops/Summer schools / winter schools	0	0	0	0
Training/Conferences	0	2	0	1

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:** 01/01/2021

Office Order: - **(With effect from Date: 04/01/2021)**

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	**Head, Human Resource (Faculty&Staff):**	**Convener**	**Member**
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	V.H. Khokhani
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	H.I. Chaudhary	J.G. Prajapati
2	**Head, Student Affairs:**	**Convener**	**Members**
1	Student Section, GTU Related Services & Examinations (GTU & Others)	V.R. Sharma	R.H. Chaudhari, S.K. Dabhi, 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	V.K. 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	**Head, Store & Purchase:**	**Convener**	**Members**
1	Central Store (Insti. Purchase/Vikaslaxi/New Items) / ST/ AMTS & Tendering for Outsourcing, Write-off	B.R.Patel	A.R.Chaudhari
4	**Head, Academics:**	**Convener**	**Members**
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, A.I. Roy
4	AICTE /GTU Affiliation, AISHE/ NIRF	H.V. Hirvaniya	J.H. Patel
5	NBA/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
5	**Head, Infrastructure &Maintenance:**	**Convener**	**Members**

1	Civil Maintenance and Liaison with PWD	Dr.G.M.Savaliya	N. R. Kotiya
2	Housekeeping/Landscaping	V.K. Patel	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	N.T.Raval, M.J.Trivedi
6	Campus Security	H.N.Chaudhari	
7	KYC Portal, Website management and updating, MIS	A.K.Patel	M.J.Trivedi
6	**Head, Industry & Outreach:**	**Convener**	**Members**
1	Training and Placement Cell / Industry-Institute Interaction (I-I-I) Cell / MOU /CII	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 A.I. Roy, N.T. Raval
3	AMIE/Profess. bodies/Student Chapters & Consultancy	Y.J. Chauhan	
4	RUSA and Other GOI Scheme	Dr. J. A. Vadher	H.U.Patel, S.K. Dabhi
5	GKS/Language Lab/ Skill Development/Finishing School	Dr.G.M.Savaliya	A.I. Roy
6	ED Cell/Design Lab.	P.N.Boka	M.K.Patel
7	Media Coordinator/Branding	D.A. Patel	R.K. Rathod
7	**Head, Amenities:**	**Convener**	**Members**
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.

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 representive)
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/ Lega112012, 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**
Chairperson:			
1	Prof.R.H.Chadhry	Assistant Professor	9925029215
Faculty Members:			
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
Non-Teaching Members:			
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
Student Members:			
10	Prajapati Riya	6th Electrical	
11	Patel Hetal	6th Civil	
12	Chaudhari Brijal	4th Civil	
Member from NGO:			
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**
Chairperson:			
1	Prof.P.C.Vasani	Professor	9825342208
Faculty Members:			
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
Non-Teaching Members:			
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
Student Members:			
10	Prajapati Riya	6th Electrical	
11	Patel Hetal	6th Civil	
12	Chaudhari Brijal	4th 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**

Chair person:			
1	Prof. R. H. Chaudhary	Assistant Professor	9925029215
Faculty Members:			
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
Student Members:			
6	Viramgami Priya	6^{th} Electrical	
7	Dhumar Binal	6^{th} Civil	
8	Chaudhari Rita B	4^{th} Civil	
9	Jua Rinnku	2^{th} 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.

Sr. No.	Name of Member	Designation	Contact Number

Chair person:			
1	Prof. R. H. Chaudhary	Assistant Professor Mathematics	9925029215
Faculty/Staff Members:			
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
Student Members:			
7	Viramgami Priya	6th Electrical	
8	Dhumar Binal	6th Civil	
9	Patel Hetal	6th Civil	
10	Jua Rinku	4th 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:GECP/73 Dt.22/1/2020

SC-ST CELL

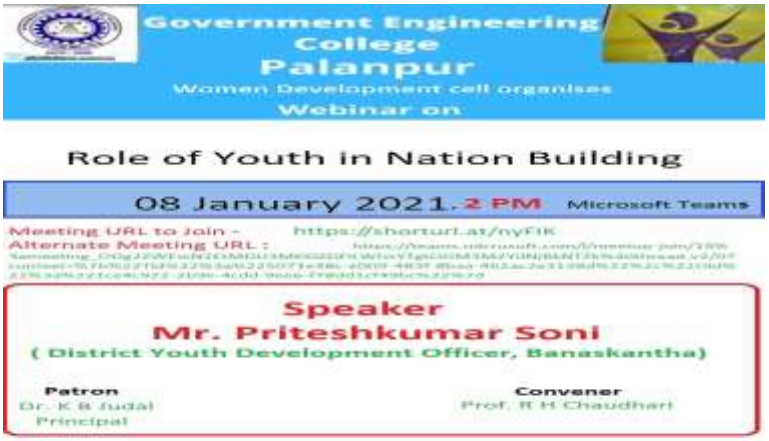
Government Engineering College,Palanpur has reconstituted a SC-ST cell as per the guidelines of University Grants Commission,New Delhi,and Ref.F 1-5/2006 (S.T.C) Dated 25-08-2006.The details of memers are as follows.

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 (Fmale)

L. Activities of Women Development Cell

- Arranged an online expert lecture which was delivered by Dr. Rajul Desai – Honorable member of National Commission of Women, Government of India on "Legal awareness for Youth" on 29/10/2020, participants were more than 55.

- Arranged an online expert lecture which was delivered by Mr Pritesh kumarsoni – Honorable member of District Youth Development Officer, Banaskantha on “Role of Youth in Nation Building” on 08/1/2021, participants were 190.



- Arranged an online expert lecture which was delivered by Prof. Jayalaxmi Pillai – Trekker, Bike Traveller, Weight Lifter on “Guidance and experiences on solo travelling Trekking and Power lifting” on 19/2/2021,participants were 121.

LIBRARY

LIBRARY

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 13618. All 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 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 24 journals and 13 magazines and three major daily news papers 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 -2020 to June 2021 total books issued to the faculty is 372 and to the students are **390**.

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

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
MATLAB SOFTWARE	2019

Availability of points of connection for Internet, WiFi, Camera

LAN POINTS	697
WIFI POINTS	20
CAMERA POINTS	40
NAMO WIFI POINTS	7

INTERNET PROVIDER

RAILTEL	100MBPS
BSNL	2MBPS
GSWAN	100MBPS

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 1st 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
	OBJECT CLASS-1			
1	Salaries	53882000	53843397	
	OBJECT CLASS-2		0	
1	Domestic Travel Expenses	3186000	96481	
2	Office Expense		2300370	
3	Rent Rates and Taxes		0	
4	Publications/Library		13729	
5	Banking Cash Transaction Tax		0	
	TOTAL	3186000	2410580	
	OBJECT CLASS-3		0	
1	Supplies and Materials	10605000	0	
2	Advertising & Publicity		0	
3	Professional Services		128640	
4	Out sourcing(Man Power)		10469422	
	TOTAL	10605000	10598062	
	OBJECT CLASS-6			
1	Motor Vehicales	0	0	
2	Machinery & Equipment		0	
	TOTAL	0	0	
1	Gymkhana	139000	0	Up to March-**202**1
2	Social gathering	69500	5660	
3	Student welfare	69500	41300	
4	GTU internal	139000	142929	
	GRAND TOTAL	6,80,90,000/-	6,70,41,828/-	

Note: All figures are in INR.

DESIGN LAB

DESIGN LAB

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, ± 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 Al, 8-Ch AO, 4-Ch LVTTL DIO, C Series Module
28	NI 9923 Front-mount terminal block for 37-pin D-Sub Modules
29	NI 9211 4-Ch Â±80 mV, 14 S/s, 24-Bit TC and Diff Al
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 GHzDual-Core, 4-Slot, Kintex-7 70T FPGA, -20 A°C to55 Â°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 Gyrosscope - 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 GP2YOA21YKOF 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

List of Projects and Components Utilized from the Design Lab Kit

Sr. No	Name of the Project	Objective of Project	List of Components Utilized
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

ALUMNI ASSOCIATION

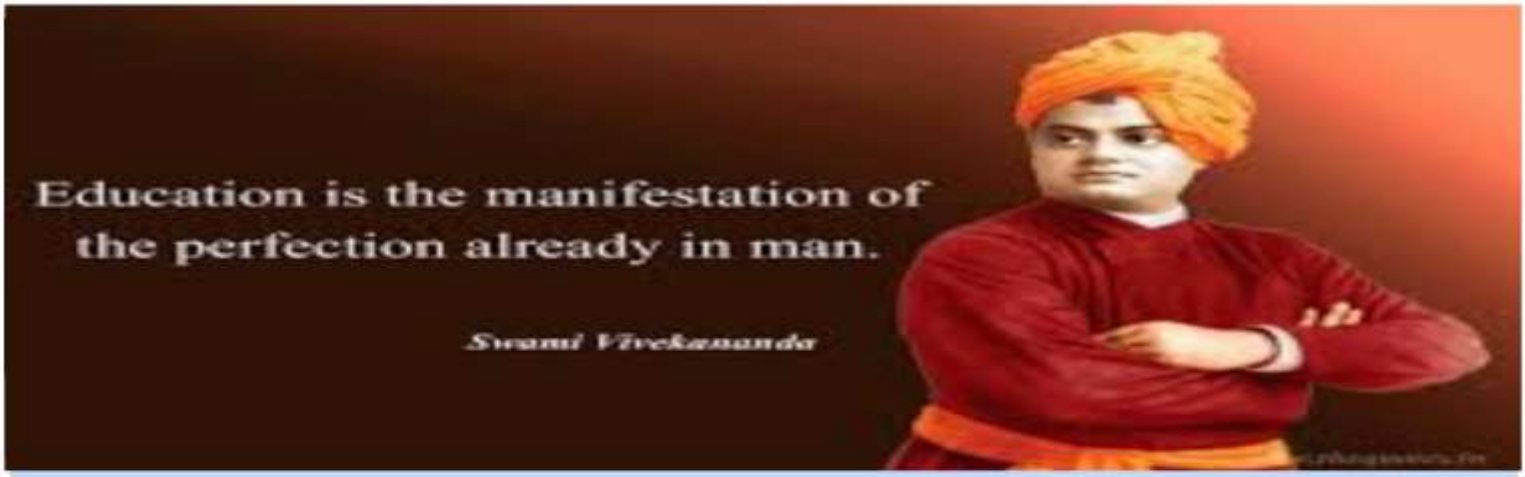
ALUMNI ASSOCIATION

(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 contributeto the generaldevelopmentof the Institute and Society.
- To create employment opportunities for the existing students and alumni of the institute.
- Toprovide scholarshipsfacility tomeritorious 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.
- Todosuchotherlawfulthings/activities (planned/unplanned)asareconductiveorincidentalto theattainmentofthe aboveobjectivesand/orbeneficialtothe interestsof the Institute, existing students anditsalumni.



VISION

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

GOVERNMENT ENGINEERING COLLEGE PALANPUR
ESTD : 2009
अभियान्त्रिकीज्ञानम् जनकल्याणम्

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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