ACADEMIC YEAR

2019-20

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,

The global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030. Government Engineering College (GEC), Palanpur thrives to fulfil this thirst with an aim of achieving full student potential and developing equitable and just society and by that promoting national development through its constant efforts and everlasting perseverance. Technological Advancement, climate change, artificial intelligence, need of skill based workforce and techno savvy youth have an increased obligation to transform the traditional educational experience into broader application based experimental practice for lifelong success.

We at GEC, Palanpur are committed to develop not only cognitive capabilities of higher order thinking and problem solving of our students through experimental learning but also social, ethical, and emotional capacities and dispositions through sports, curricular and extracurricular activities every year. Good physical infrastructure and appropriate resources available at our college provide safe and stimulating learning environment. Seamless integration and coordination of all departments and resourceful and well qualified faculty members provide environment conducive to learning for all students at all educational stages. Along with engineering professional courses, we offer multidisciplinary courses such as humanities, social science, pure and applied science, ethics, life skills and language so as to ensure holistic development of our students and endeavour to mould them into responsible Indian citizens. The institute implemented 'light but tight' regulatory framework from 2019-20 to ensure quality education and discipline through progressive assessment and regular monitoring of students' progress and classroom attendance. Our young minds nurture 'out of the box' thinking and promote student innovations and entrepreneurship through establishment of Design Lab and successful implementation of Students Start up and Innovation Policy. Outstanding research is core prerequisite of any outstanding teacher. "Research Promotion under Technical Education" scheme is motivating the faculties in addition to ample infrastructure and time to carryout extensive research for their professional development.

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 employee and students now and ever. Let's join our hands in transforming our youth into responsible Indian citizen.

Dr. K. B. Judal

MOTIVATIONAL MESSAGES BY HODs AND TPO

Civil Engineering Department

Dear students,

Welcome to the department of civil engineering at government engineering college, Palanpur. Civil engineers play an extremely important role in the society. They are responsible for maintaining the overall safety of society in a number of ways including rural engineering. From constructing highways and buildings to bridges and tunnels, the responsibilities of civil engineers are many.Civil engineers are responsible for planning and overseeing different construction efforts and apply civil engineering principles to ensure that the constructed structures are safe and sturdy.

The role of civil engineers are everywhere and will become even more essential for developing the nations like India.

Our faculties are actively engaged in providing outstanding educational as well as practical exposure to the students. Students will have an action-based, practice-focused result oriented experience and growth in all areas of civil engineering. 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.

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 for professional career and entrepreneurship 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 and technical seminar 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

Mechanical Engineering is the comprehensive discipline in engineering which involves Design, Production, Thermal, Maintenance, and Managerial Skill. The Department is well equipped with all latest equipments and instruments that prepares students for a broad range of careers choice in Industry, Academic Institution, and Government/Private Service sector and also as Entrepreneur. The department is also having latest software for enhancing knowledge and skills for sustainable development. Faculties and Supporting Staff are well qualified and expert in their area of work and dedicated to assigned task. Students are performing well in projects, every year department's projects gets recognition. The Projects are unique, innovative and some of are granted by SSIP. Every year students are participated in state and national level Technical and cultural events and presenting their potential. The teaching learning environment is very conducive to students which in turn helpful in their personal as well as career development.

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. We put significant effort in all the institute activities in an attempt to transform young students into responsible and professional engineers with a sense of social responsibility, human values and concern for environment. The blend of classroom teaching and field, visits, industrial attachment etc., is an integral expression of our commitment to creating a physical environment that can sustain the production of learning and knowledge in the 21st century.

The development of our students as future technical specialists and managers remain 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 07th -08th February, 2020. 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 banskantha 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.

At the end of the Mega Placement Camp, there was an outstanding response from all the stakeholders. No of Company Participated 41 and No of Present Students was 1509.

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

A. SSIP

No.:GECPL/ SSIP/ **Date:03/10/2019**

Reference: Minutes of meeting, Institute Level SSIP Committee meeting held on 23rd Sept. 2019

Office Order:

Institute level SSIP committee approved financial support to shortlisted PoCs vide Point No. (4) of above-mentioned reference. In this regard, PoCs with below mentioned details are sanctioned financial support mentioned in column-4. As recommended in above referenced minutes of meeting, it is hereby directed to disburse 25% of the sanctioned amount (as mentioned in column-5) in the bank account of mentor stated against each PoCas an advance for first phase.

Sr. No.	PoC Title	Mentor	Financial Support Approved	Financial Support to be Disbursed for Phase I (Rs.)
1	2	3	4	5
1.	E-commerce website(www.tamaridukan.com)	Prof. M. K. Patel	48000	12000
2.	Solar vehicle	Prof. H V Hirvaniya	180000	45000
3.	Smart switch board	Prof. M. K. Patel	50000	12500
4.	Smart e-mon plug	Prof. M. K. Patel	13500	3375
5.	Travel time analysis on selected stretches on Palanpur city.	Prof. H. U. Patel	100000	25000
6.	High strength self-compacting concrete using marble waste as coarse aggregates	Prof. Y. J. Chauhan	141500	35375
7.	Fatigue analysis of post tensioned prestressed concrete bridge girder	Prof. Y. J. Chauhan	120000	30000
8.	Net zero energy building	Prof. (Dr.)G. M. Savaliya	25000	6250
9.	Performance Improvement and Investigation of Magnetic Abrasive finishing Process	Prof A. R. Chaudhari	51500	12875
10.	Automated waste strage and transportation system for waste disposal.	Prof. N. A. Patel	36500	9125
11.	Rough terrain robot using rocker bogie mechanism.	Prof. P. N. Boka	17600	4400
12.	Design and Module of Gas detector	Prof J. V. Modi	27950	7000
13.	Effective utilization of marble waste	Prof J. V. Modi	100000	25000

Each mentor has to follow the SSIP guidelines for utilization of advance sanctioned and maintain relevant documents, bills/vouchers of expenditure for further processing. The amount for next phase will be disbursed after submission of accounting details of advance and Project Progress Report.

(Shri N. A. Patel)
SSIP Coordinator

(Dr. K. B. Judal)
Chairman SSIP & Principal

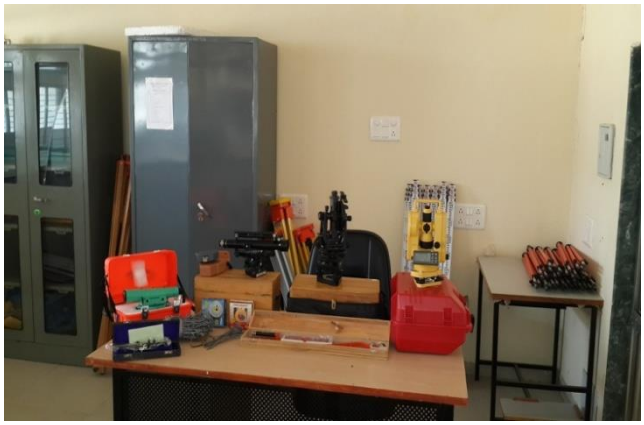
B. Other Self-Learning/Online Learning Facilities: NPTEL, Virtual Lab, Moodle, E-Learning

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	https://manishprajapati570.blogspot.in	Class notes, Assignments, Tutorials, Notice, Mid Sem Result etc.
7.	Electrical	http://vlabs.iitb.ac.in/vlab/labsee.html	IIT Bombay virtual lab facility utilized to perform practical of Switch Gear and Protection (2170908) subject
8.	Electrical	http://vlabs.iitkgp.ernet.in/vhv/	Lab experiment
9.	Electrical	http://nptel.ac.in/	Video lectures
10.	Electrical	http://nptel.ac.in/	Video lectures, Web Course
11.	Mechanical	http://vlabs.iitb.ac.in/vlab/	Laboratory Experiments
12.	Mechanical	https://sites.google.com/view/napatelgec/	Class notes, assignments, tutorials
13.	Mechanical	http://ocw.mit.edu/	Teaching materials used in classrooms
14.	Mechanical	http://nptel.ac.in/	Video lectures
15.	Mining	http://nptel.ac.in/	Video lectures, Teaching materials used in classrooms
16.	Mining	Slideshare.net	Teaching materials used in classrooms
17.	Mining	https://drive.google.com/drive/my-drive	Lecture notes, Assignments, Study material

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, 3rd& 4th semester for the subjects Elements of Civil Engineering (2110004), Surveying (21306010 & Advanced Surveying (2140601).

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 branch of civil engineering. In civil engineering Side, it is useful for different infrastructure facilities like water infrastructure, Waste water

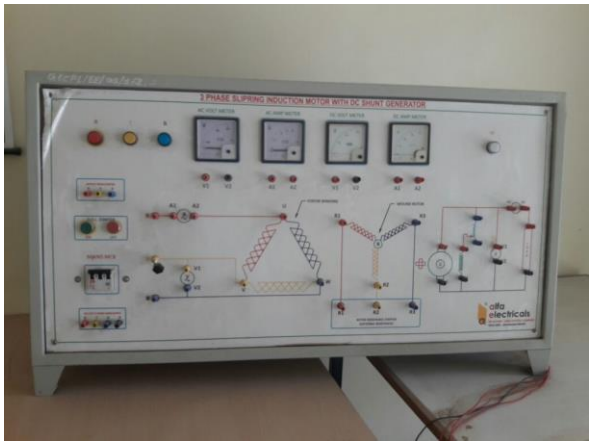
	infrastructure, Solid waste management etc. Environment Engg. Lab is located on first floor and required well equipped instruments like, PH Meter, Turbidity Meter, Conductivity Meter, Sound level meter Water Quality Analyser, BOD Incubator High Volume Sampler etc. This different equipment mostly useful 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
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

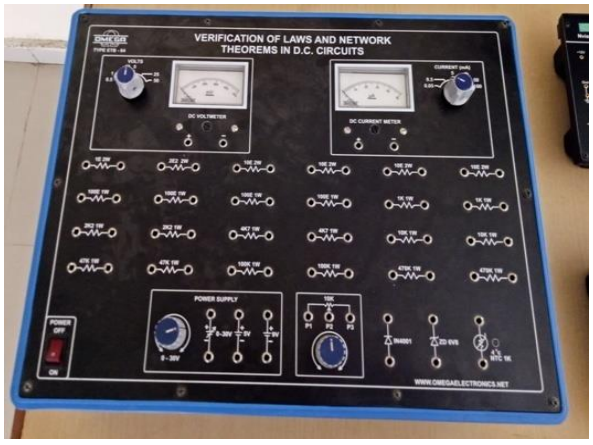


generator, three phase alternator, three phase induction motor, Single phase induction motor and Single phase transformer.

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



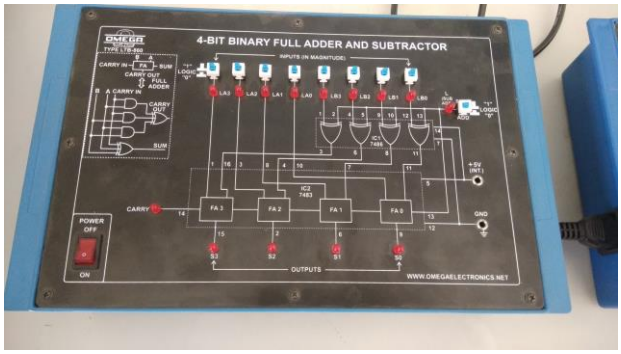
Network and control laboratory is located on the first floor of Electrical Block. This laboratory facilitates the students of 3rd and 5th semester for the subjects Circuits and Network and Control System Engineering respectively.

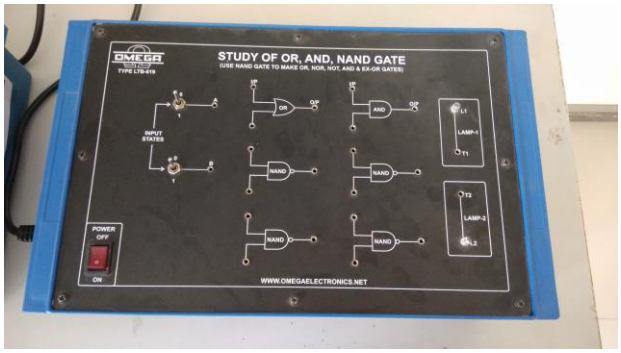
This laboratory allows student to Understanding and predicting system behavior and solve complex network using different techniques.

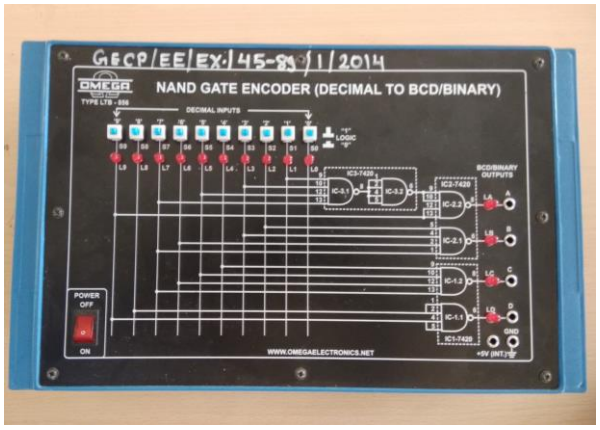
Major Equipments:

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 subject. 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

Power System laboratory is located on the ground floor of Electrical Block. This laboratory facilitates the students of 4th,6th and 7th semester for the subjects Electrical Power Generation, High Voltage Engineering and Switch-Gear and Protection respectively.

This laboratory allows student to Understand fundamentals of power generation and behavior of dielectric material under high electric stress.

Major Equipments:

1. Model f Power Generation, Transmission and Distribution.

Oil Testing Kit, 60 kVSphere-gap Assembly

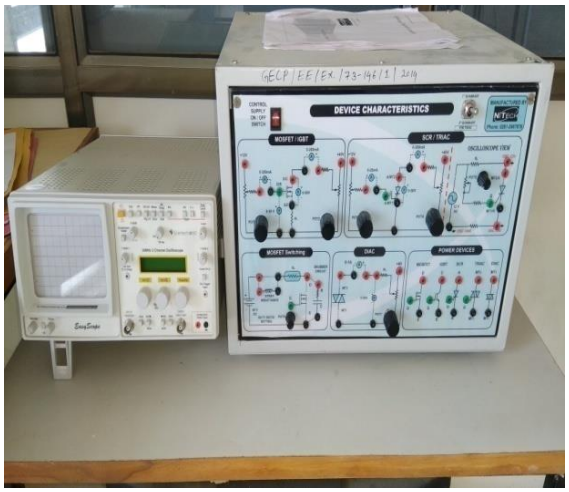
	
Basic & Power Electronics Lab 	The Electronics laboratory facilities are located in the first floor of Electrical block. The facility has been developed by Asst. Prof. B. R. Patel. This laboratory facilitates the students of 2nd ,5th and 6th semester for the subjects Basic Electronics (2110016) , Power 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 subjects 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 subjects & 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 subject. 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 subjects 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 subjects 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 subjects High voltage engineering. This laboratory allows student to Understanding of high voltage lab concepts. Major Equipments: 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 subjects MMM.

OBJECTIVES

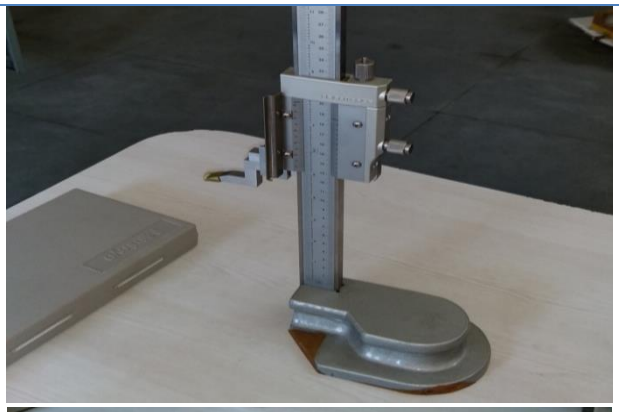
The objectives of Mechanical Measurements & Metrology lab is

- 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 subjects 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

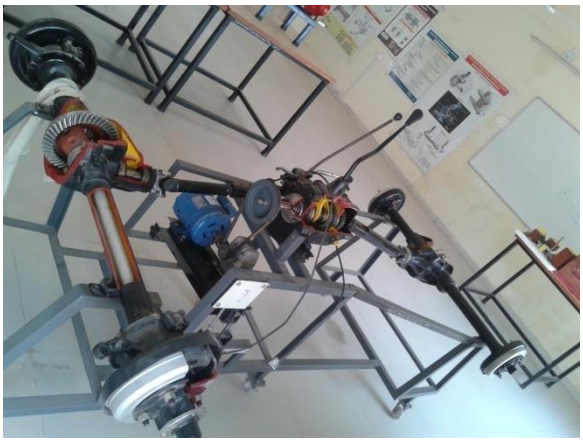
We have 25 pcs available to run appropriate modeling and Analysis/Simulation software and to perform most common computing task.

We have license for following softwares.

Autodesk Inventor 2017

Autodesk Autocad 2017

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 subjects 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.

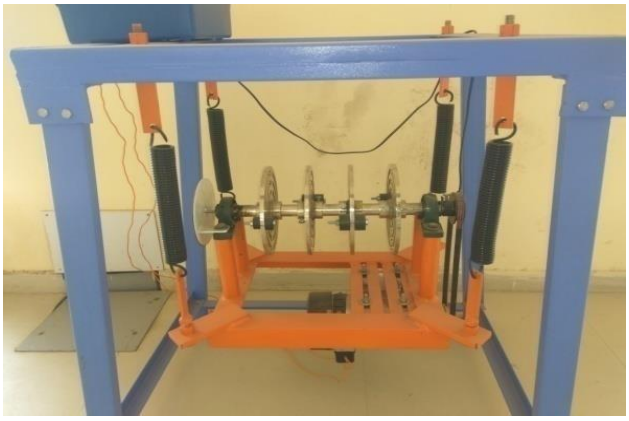
Major Equipments:

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 subjects for performing the practical on:

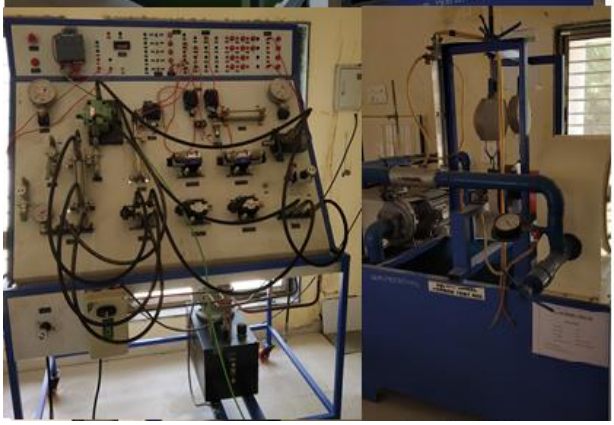
1. Heat Transfer
2. Refrigeration and Air Conditioning
3. Power Plant Engineering

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 subjects.

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 subjects:

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 subject 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

CIVIL ENGINEERING DEPARTMENT

Sr.No.	Equipment Name	Qty	Specification
1	**Compression Testing Machine CTM (3000 kN)** 	1	On site calibration of all three load gauges and one digital indicator charges. NABL Certified.
2	**Universal Testing Machine UTM (1000 kN)** 	1	On site calibration of digital indicator charges. NABL Certified.
3	**C.B.R. Test Machine**	1	On site calibration of 50kN Proving Ring. Non-NABL Certified.

			
4	**Direct Shear Test Machine** 	1	On site calibration of 2kN Proving Ring. NABL Certified.
5	**Curing Tank** 	1	Tank Size: 2.75m x 1.2m x 0.9m

- A proposal for Concrete Lab Extension has been put to R&B.

A proposal for Modernizations of Concrete Technology Laboratory, Geotechnical Laboratory, Transportation Engineering Laboratory under MODROB has been applied.

ELECTRICAL ENGINEERING DEPARTMENT

Sr.No.	Equipment Name	Qty	Specification
1	Cascaded two port network	1	one continuously variable, overload and short circuit protected dc regulated power supply of 0- 10v. Two dual range meters z-parameters of single port or two-port network. Y-parameters of single-port or two-port network. Abcd-parameters of single-port or two-port network. H-parameters of single-port or two port network
2	Soldering and desoldering station		Hot Air Soldering & Desoldering Station. S.M.D. Rework Station. Micro Soldering Station. 1.2V DC - 18V DC Digital Regulated Power Station.

MINING ENGINEERING DEPARTMENT

Sr. No	Equipment/Model	Qty	Specification
1	Helmet	22	Multipurpose safety helmet with LED light
2	Gum shoes	30	Torpedo Safety Boot
3	Cap lamp	28	Personal Safety Kit Reflective Luminous Garment without Patch Pocket & Marking

E. Major projects/Minor projects

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1	HIGH STRENGTH SELF COMPACTING CONCRETE (HSSCC) USING MARBLE WASTE AS A REPLACEMENT OF NATURAL AGGREGATES	Prof. Y. J. CHAUHAN
2	IMPROVEMENT OF SOIL PROPERTY	Prof. N. R. KOTIYA
3	EFFICIENT WORKING OF STP AND GREY WATER TREATMENT OF INDIVIDUAL DWELLING UNIT	Prof. R. K. RATHOD
4	NET ZERO ENTERGY BUILDING	PROF. G M SAVALIYA
5	DEVELOPMENT OF SPREAD SHEET FOR DESIGN OF WATER TANK AS PER IS : 3370 - 2009	Prof. Y. J. CHAUHAN
6	PLANING OF SCHOOL BUILDING	PROF. S. G. CHAUHAN
7	DESIGN OF A R.C.C. ELEMENTS STRUCTURE USING EXCEL SHEET	PROF. P. C. Vasani
8	DESIGN OF PT SLAB AS PER IS: 1343:2012	Prof. Y. J. CHAUHAN
9	TRAVEL TIME ANALYSIS ON SELECTED STRETCHES ON PALANPUR CITY.	Prof. H. U. PATEL
10	CAUSES, PREVENTION AND REPAIR OF CRACKS IN BUILDINGS	PROF. G. M. SAVALIYA
11	TOP ROOF & SURFACE WATER CONSERVATION	Prof. R. K. RATHOD
12	DESIGN AID OF REINFORCED EARTHEN WALL FOR BRIDGE APPROACH	PROF. Y. J. CHAUHAN
13	PLANNING &E STIMATION OF RESIDENTIAL & COMMERCIAL BUILDING	PROF. S. G. CHAUHAN
14	SUSTAINABLE BUILDING PLANNING	PRO. S. G. CHAUHAN

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide
1	Vertical Axis Wind Turbine	PROF. N A MISTRI
2	Electrical Power Generation from Stationary Bicycle	PROF. M G PRAJAPATI
3	Ardino Based Cnc Plotter Machine	PROF. J H PATEL
4	Water Management System in Gec, Palanpur Hostel	PROF. M.K. PATEL

Sr. No.	Project Title	Name Of Guide
5	Auto Cut Off Of 20 Hp Submercible Pump Based on Water Level In Gec, Palanpur	PROF. M.K. PATEL
6	To Develop A Mechanism for Cleaning of Solar Pv Module	PROF. H N CHAUDHARY
7	Rfid Based Student Attandance System	PROF. J H PATEL
8	Smart Weather Station at GEC, Palanpur	PROF. M R SUNEJA
9	3 Phase Voltage Control Rectifier	PROF. B R PATEL
10	Power Generation on Highway Using Vehicles Moment	PROF. H V HIRVANIYA
11	Solar System Based Water Purification System	PROF. A.M.PATEL
12	Solar Battery Charching System	PROF. H V HIRVANIYA
13	Smart Irrigation System	PROF. K G PRAJAPATI
14	Hooter System	PROF. M R SUNEJA

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide
1	Automated waste storage and transportation system for waste disposal	Prof. N A Patel
2	Optimization of plasma arc cutting process on ms-2062 using of	Prof. N T Raval
3	Energy audit in AMP forging	Prof. N A Patel
4	Development of solar energy storage unit with paraffin wax as a phase change material.	Prof. V D Patel
5	Manufacturing of Centrifugal Casting Machine to Enhance the Mechanical Properties	Prof. A K Patel
6	Fabrication of chopper machine	Prof. A D Patel
7	Development of innovative manufacturing system for curved surfaces.	Prof. A R Chaudhari
8	Design of oil expeller press with structural analysis of screw	Prof. N T Raval
9	Rough terrain robot using rocker bogie mechanism	Prof. P N Boka
10	Development of handy groove cutter for more than 5mm thick	Prof. A D Patel
11	Chainless bicycle	Prof. P N Boka
12	Manufacturing of vertical centrifugal casting machine with	Prof. A K Patel
13	Physical metallurgical analysis of aluminium silicone alloys	Prof. A K Patel

Sr. No.	Project Title	Name of Guide
14	Development of double passed baffled solar dryer for cotton seed	Prof. V D Patel
15	Improvement and performance testing of available electrochemical machine	Prof. A R Chaudhari
16	Performance improvement and investigation of magnetic abrasive finishing process.	Prof. A R Chaudhari
17	Innovative Tree Cage Design - a novel approach	Prof. A D Patel

MINING ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide
1	Study of Haul road design and its maintenance in surface mine	Suraj Kumar
2	GIS and Remote sensing in Mining	H B Patel
3	Study of EIA and EMP in surface mining	Suraj Kumar
4	Effective utilization of Marble waste	J. V. Modi
5	Module of Gas Detection	J.V. Modi

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

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide
1	HIGH STRENGTH SELF COMPACTING CONCRETE (HSSCC) USING MARBLE WASTE AS A REPLACEMENT OF NATURAL AGGREGATES	Prof. Y. J. CHAUHAN
2	IMPROVEMENT OF SOIL PROPERTY	Prof. N. R. KOTIYA
3	DESIGN AID OF REINFORCED EARTHEN WALL FOR BRIDGE APPROACH	PROF. Y. J. CHAUHAN

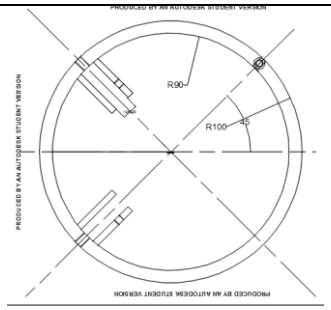
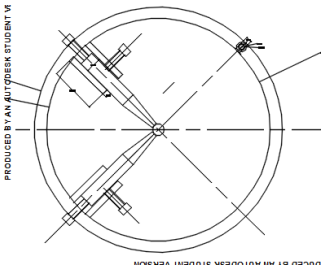
ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
1	Electrical power generation from stationary bicycle	Prof. M G Prajapati	The Intention of this project is to design a renewable energy source based around a piece of Exercise equipment. The Energy expanded in a typical workout at the GYM is usually wasted in the Mechanics of the equipment this project harnessed the mechanical energy of the machine and converted it to Electrical energy using a Generator based system. The Exercise equipment attached to a shaft of the Generator. Thus, produced Electrical energy is using in powering a piece of equipment such as Lamp or a computer while exercising. This report will introduce the project and present all applicable information regarding the design development and the final product.	
2	TO DEVELOP A MECHANISM FOR CLEANING OF SOLAR PV MODULE	Prof. H N Chaudhary	Now a days electrical energy become a primary base of modern Civilization and backbone for sustainable development. Global energy consumption will increase day by day. The power crisis has become a major constraint to continued growth. Due to depleting nature and conventional source depending energy policy, it is necessary to find renewable energy sources. Solar power generation has a positive impact. The power output delivered by a photovoltaic module is depends upon the irradiation which reaches to the solar cell. The environment is directly affecting the photovoltaic performance. This project aims to increasing the performance of solar PV module by solving the problem of accumulation of dust on the solar panel. The dust accumulation reduce the plant output and over all plant efficiency. Our project purpose to develop a solar panel cleaning system, which could remove the accumulated dust on its surface and	

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
			maintain the solar power plant output. We use a spraying system which could operate automatically and spray the water on the surface of solar panel. To control the on/off cycle of motor (pump), we use inbuilt timer interrupt of an Arduino and connect a relay to control the pump switching. We also done an analysis to measure the impact of soiling on the solar panel on 100kW solar power plant at Government Engineering College, palanpur. We compare energy generation of 30kW plant before cleaning and after cleaning at government engineering college palanpur.	
3	AUTO CUT OFF OF 20 hp SUBMERCIBLE PUMP BASED ON WATER LEVEL IN GEC, PALANPUR	Prof. M.K. Patel	As we all know that water wastage is a global issue, as there is only 1% of usable water present on earth. So it is necessary to use water efficiently. Many measures are taken for this problem, but we are willing to design a system which will serve two functions of saving electricity and water. In some conditions, while filling up the overhead tank, the water in the sump gets empty and the motor is still running which is waste of electricity and life of motor also decreases. To overcome above problem the motor will automatically turn off and alarm module will sound, which will give message to operator to fill up the sump. And if the overhead tank overflows then here is wastage of water. To overcome the above problem the solution is to build a module which is sensor based. This will generate a signal which will be given to the control unit which will trip the motor off.	

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
1	Automated Waste Storage And Transportation System For Waste Disposal	Prof N A Patel	Nowadays, Cleanliness is one of the prime necessities. Government of India has also commenced a movement regarding cleanliness, named as “Swachchh Bharat Mission”. Though, in the modern world, we have a large equipment availability, still we are not able to achieve our target of Cleanliness, efficiently as well as effortlessly. To overcome that our team has developed a self-operated combination of Waste Storage and Transportation System. In which we are using automatically operated dust-bin and pre-directed propulsion vehicle, which can be used in many Multi-storied Buildings, Industries, Railway Stations, Airports and Shopping Malls, etc. In this system when any person approaching the dust-bin comes within range, it automatically opens the lid of the dust-bin. When dust-bin is filled to certain pre-defined level, it senses with the help of sensors and starts to propel on the path which has been pre-defined. It traces the path and reaches the disposal area, where the dust-bin automatically opens the lid and rotates on its radial axis at the center of bin’s height, with the help of motors to certain degree, to empty the collected waste. And then after it automatically retracts to its initial position.	 
2	Rough Terrain Robot Using Rocker Bogie Mechanis	Prof P N Boka	Rocker Bogie is a suspension system used in mars rovers like Pathfinder, Curiosity etc. The specialty of this suspension system is that it does not have any springs. The term "rocker" comes from the design of the differential, which keeps the rover body balanced,	

Sr. No.	Project Title	Name Of Guide	Abstract	Photos
	m		enabling it to "rock" up or down depending on the various positions of the multiple wheels. Bogie means links that has driven wheels at each end. 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, whereas the other suspension tilt stability is limited to centre of gravity (the less height the more stable).Our project deals when this mechanism is fixed with auxiliaries like cutting blades they can be used as lawn mowers which can climb the obstacles. These mechanisms can take a direct 55 degree climb without overturning.	
3	Performance Improvement And Investigation Of Magnetic Abrasive Finishing Process.	Prof A R Chaudhari	Magnetic abrasive finishing is a super finishing process which is used to finish very hard materials. In present MAF setup does not properly to obtain neon surface finishing. Problem will be identify and modification will be done to improve to existing setup. Also performance checking will be done by using Response surface method. And optimum process parameter will be identify.	 

MINING ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide	Abstract	Photos
1.	Study of EIA and EMP in surface mining	Suraj Kumar	The aim of Environmental Impact Assessment is to protect the environment by ensuring that a local planning authority when deciding whether to grant Environment Clearance for a project, which is likely to have significant effects on the environment. The Environmental Management Plan covers the design, construction, commissioning, and operation and maintenance phases of each project component. The Environmental Management Plan identifies the key environmental issues across the project and provides strategies and plans for managing them effectively. Environmental impact assessment is a very exhaustive study that is required to be done to assess the possible positive or negative impact that proposed project may have on the environment. EIA studies include environmental, social and economic aspects. This report specifically discusses the EIA studies on mining Industry. The study intends to expose the parameters that may be required to be considered while assessing the impact on Environment due to proposed mining industry. Efforts are also made to provide the sample format for submitting the EIA report to authority. As submission of EIA reports are statutory requirements by the country specific laws. The style, format, Act or regulations governing EIA compliance and numbers of parameters required by EIA studies may very accordingly.	 

Sr. No.	Project Title	Name of Guide	Abstract	Photos
2.	Effective Utilization of Marble Waste	Mr. J. V. Modi	Marble generates very high amount of waste in various activity like cutting, polishing, etc. same way calcite also has waste material, these Marble and Calcite (slurry) waste will be used for manufacturing concrete for its effective utilization. Here the effort will be made to use this kind of mine wastes for manufacturing concrete with either nominal mix or mix design of specific grade, e.g. M30, M40, M50 and analyze the compressive strength and water absorption. Based on that, proportion will be fixed to get maximum compressive strength and less water absorption properties of the concrete.	 
3.	Design Module Of Gas Detection	Mr. J. V. Modi	The utility model discloses an underground fire disaster and toxic and harmful gas positive pressure bundle pipe monitoring system of a mine, which belongs to the technical field of mine safety monitoring. The system comprises five parts, namely a positive pressure conveying system, a gas analyzing system, a control system, a data acquisition system and a working station. 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 on a fire disaster and the toxic and harmful gas in a metal mine.	

G. List of IDPS

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide	Name of industry
1	HIGH STRENGTH SELF COMPACTING CONCRETE (HSSCC) USING MARBLE WASTE AS A REPLACEMENT OF NATURAL AGGREGATES	PROF. Y. J. CHAUHAN	Ashish Bridgecon Pvt. Ltd.
2	DESIGN OF PT SLAB AS PER IS: 1343:2012	PROF. Y. J. CHAUHAN	CASAD Consultants Pvt. Ltd.

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Project Title	Name of Guide	Name of industry
1	Optimization Of Plasma Arc Cutting Process On Ms-2062 Using Of Taguchi Method	Prof. N T Raval	Saideep Enterprise chattral GIDC
2	Energy audit in AMP forging	Prof. N A Patel	AMP Forging, Chitrasani, Palanpur

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

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Description of Arranged Visit	Date	Site, Location	Number of students participated
1	Site visit at Motera Stadium, Ahmedabad and Mahatma Mandir Cable Stayed Bridge, Gandhinagar.	7/8/2019	Motera Stadium, Ahmedabad and Mahatma Mandir Cable Stayed Bridge, Gandhinagar.	69
2	KBC based Quiz	02/10/2019	Seminar Room, Civil Department, GEC, Palanpur	69
3	Site visit of Sardar Sarovar Narmada Dam at Kevadia Colony, For the B.E. Sem IV and VI (Civil) arranged	13/03/2020	Sardar Sarovar Narmada Dam at Kevadia Colony	118
4	Site visit of Statue of Unity, World's Tallest Statue at Kevadia Colony, For the B.E. Sem IV and VI (Civil) arranged	13/03/2020	Sardar Sarovar Narmada Dam at Kevadia Colony	118
5	Site visit at Banas Dairy, Palanpur arranged for final year student of civil engineering	2/8/2019	Banas Dairy, Palanpur	67

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Teaching-Learning Tool Used	Name of Subject and Semester	Teaching-Learning Tool Used	Details
1	Prof. A. M. Patel	Switch Gear and Protection (2170908); 7th Sem. EE	Google Classroom	It offers following advantages: • Bilateral communication (one to one and group both) is very easy and fast. • Sharing of study material/instructional notice is very easy. • Conduction of online exam and assignment is very effective.
2	Prof M G Prajapati	Control of Electrical Drive	Google Classroom	It ias used for Assignment, Class note shariong, To display result of class test etc.
3	Prof. M K Patel	High Voltage Engineering	Google Classroom	Lectures on google classroom in onducted and the quiz and assignment is given on google classroom
4	Prof. K. G. Prajapati	Electrical Powersystem II	Google meet	Online Lectures

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related Subject	Class	Name of Staff
1	Students visited to AutoResQ, a palanpur's biggest automatic service station.	Automobile Engineering	8th Sem	Prof. A.D. Patel
2	Engine assembly workshop was arranged for students. Mechanic from well known automobile garage was invited to deliver session.	Automobile Engineering	6th Sem	Prof. A.D. Patel
3	Video lecture available from NPTEL related to REE Course is used for teaching-learning process.	Renewable Energy Engineering	8th Sem	Prof. A.B. 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	Subject	Using PPT? Yes/No	Using Videos? Yes/No	Using Animations? Yes/No	Any Other Methodology
J. V. Modi	IV	RM	Yes	Yes	No	No
Suraj Kumar	IV	MM-I	Yes	Yes	No	No
Suraj Kumar	V	MM-II	Yes	Yes	No	No
J.V. Modi	V	RM	Yes	Yes	Yes	No
J. V. Modi	V	AMS	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 subject	Class	Name of staff
1	Students were asked to make presentation on the given topic and to deliver in the class itself to improve their self learning ability	Advanced Construction Engineering	6th Civil	Prof. R. K. Rathod Prof. H. U. Patel
2	Presentation method by Students, Question answering method, Discussion Method	Chemistry & Environmental science	1st Mech/Civil/Elect/Mining & 2nd Mining	Prof. C.G.Prajapati
3	Use of Online Platforms such as, Google Meet, Google Duo, Google Classroom, Google Forms, etc for Term work Submission, Viva, ALA,Quiz, etc.	All Subjects	All Semester	All Faculties of Civil Engineering Department
4	MCQ based Exam (Block)	DRCS	7th Semester	Prof. Y. J. Chauhan

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related subject	Class	Name of staff
1	Google Classroom	PS-I	4th Sem. EE	Prof. A. M. Patel
2	Google Classroom	CED	6th Sem. EE	Prof M G Prajapati
3	Google Classroom	DDCMT	6th Sem. EE	Prof M G Prajapati
4	Google classroom	HVE	6th Sem. EE	Prf. M.K.Patel
5	Continuous Evaluation	Inter Connected Powersystem (2170901)	7th	Prof. K. G. Prajapati
6	Online quiz	Electrical Powersystem II (2160908)	6th	Prof. K. G. Prajapati
7	Online Practical Viva Exam	CED	6th Sem. EE	Prof M G Prajapati
8	Google Classroom	UEET	6th EE	H. V. Hirvaniya
9	Google Classroom	PE	4th EE	H. V. Hirvaniya
10	Google Meet	PE	4th EE	H. V. Hirvaniya
11	Outcome Based Progressive Assessment	PS-I	IV	Prof. J.H.Patel
12	Outcome Based Progressive Assessment	PSOC	VIII	Prof. J.H.Patel

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related Subject	Class	Name Of Staff
1	Students are asked to perform experiment and take at least one reading (performance based assessment)	I. C. Engine	6th mech	Prof. A. D. Patel
2	Design of any element from IC/Auto lab (ex. Fan hook, door handle, door hing screws etc…) (on the spot design)	D.M.E.	5th Mech	Prof. A. D. Patel
3	Students were asked to make presentation	Auto. Engg.	8th mech	Prof. A. D. Patel

	on the given topic and to deliver in the class itself to improve their self learning ability			
4	"In Renewable Energy Engineering (REE) Course, Quiz was taken by using Google Glass Room. Student have submitted Assignment through the e-mail. In Renewable Energy Engineering (REE) Course, Different topic for Presentation was selected by student and presented in the classroom amongst their peer.	Renewable Energy Engineering (REE)	8th sem	Prof.A.B.Patel
5	In Basic Mechanical Engineering (BME) Course, Quiz was taken by using Google Glass Room."	Basic Mechanical Engineering (BME)	2nd sem	Prof.P.N.Patel Prof.A.B.Patel Prof.N.T.Raval

MINING ENGINEERING DEPARTMENT

Sr. No.	Methodology	Related subject	Class	Name of staff
1	Presentation method by Students and Quiz	Geology-I & II	Semester 3 & 4	Prof. H.B Patel
2	Students were asked to make presentation on the given topic, Discussion and Question answering	Mining Machinery - I	4th Semester	Suraj Kumar
3	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	Underground Metal Mining	6th Semester	J. V. Modi

	Method, Model Prepared.			
5	Students were asked to make presentation on the given topic and to deliver in the class itself to improve their self learning ability	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 2020" Inter College Power Point Presentation Contest	24th – 25th Feb 2020	Sankalchand Patel College of Engineering, Visnagar, Mehsana	1. Bhatt Devansh Harshendukumar 2. Patel Milankumar Bhaktibhai 3. Parmar Sureshsinh Mukundsinh

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
1	GTU Central tech Fest	8-9 April 2019	Ahmedabad	Pal Avinash
2	GTU Central tech Fest	8-9 April 2019	Ahmedabad	Hardik Prajapati
3	GTU Central tech Fest	8-9 April 2019	Ahmedabad	Keyur suthar
4	GTU Central tech Fest	8-9 April 2019	Ahmedabad	Dhruv Thakar
5	GTU Central tech Fest	8-9 April 2019	Ahmedabad	Rathod Bhagirath

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
6	NIRMAN'19	14-15 October 2019	Ahmedabad	Patel Yash
7	LAKSHYA2020	13-14-15 feb 2020	Ahmedabad	Rathod Prajaval
8	TECHKSHETRA20	14-15-16 FEB 2020	Baroda	Makawana rahul
9	FOOTPRINT	21-22-23 Feb 2020	Baroda	Rutvik vaghela
10	LAKSHYA2020	13-14-15 feb 2020	Ahmedabad	Sindhi Muhammadabuzer
11	LAKSHYA2020	13-14-15 feb 2020	Ahmedabad	Parmar Nikhil

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
1	PRAKRUSHT 2019	9TH & 10TH SEP 2019	SMT. S. R. PATEL ENGG. COLLEGE, UNJHA	1. RAJPUT BRIJESHKUMAR 2. RAVAL KULDEEP
2	TECHXETRA (JUNK-YARD)	17TH – 18TH FEB 2020	HANSABA COLLEGE OF ENGINEERING (GGU) SIDDHPUR	1. PATEL MITUL

MINING ENGINEERING DEPARTMENT

Sr. No.	Name of Event	Date of Event	Venue	Name of students participated
1.	Recent amendments and changes in mining legislations and policies	27/07/2019	GMDC, Ahmedabad	20

K. Result Analysis

CIVIL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2019-20		Nos. of students appeared	Nos. of students passed	Pass %
FY	I Sem	62	20	32.6
	II Sem	65	56	86.15
SY	III Sem	60	35	58.33
	IV Sem	57	57	100.00
TY	V Sem	54	37	68.52
	VI Sem	53	53	100.00
LY	VII Sem	67	59	88.06
	VIII Sem	66	66	100.00

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

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Basic Electrical Engineerring [BEE]	62	36	58.06	Prof. K. G. Prajapati &Prof. J. H. Patel
Environmental Science [ES]	62	60	96.77	Prof. R. K. Rathod
Physics[PHY]	62	51	82.26	Dr. K. M. Korot
Engineering Graphics and Design [EG&D]	62	41	66.13	Prof. A. D. Patel &Prof. N. T. Raval
Mathematics - I [MATHS-I]	62	30	48.39	Prof. D. A. Patel &Prof. R. H. Chaudhary
Induction Programme[IND. PRGM]	62	62	100.00	All Staff
English [ENG]	65	57	87.69	Prof. A. I. Roy
Programming for Problem Solving [PPS]	62	57	91.94	Ms. Himani Thakkar [Visiting Faculty]
Basic Civil Engineering [BCE]	65	56	86.15	Prof. R. K. Rathod
Basic Mechanical Engineering [BME]	65	57	87.69	Prof. A. B. Patel
Workshop/ Manufacturing Practices [W/S]	65	57	87.69	Prof. A. B. Patel & Prof. J. N. Patel
Mathematics –2 [MATHS-2]	65	61	93.85	Prof. D. A. Patel
Physics [PHY]	03	0	0.00	Dr. K. M. Korot
Effective Technical Communication [ETC]	60	55	91.67	Prof. A. I. Roy
Indian Constitution [IC]	60	59	98.33	Visiting Faculty
Design Engineering - I (A)[DE- I (A)]	60	60	100	Prof. S. G. Chauhan & Prof. M. N. Prajapati
Geotechnical Engineering[GE]	60	49	81.67	Prof. M. N. Prajapati & Prof. N. R. Kotiya
Building Construction and Technology [BCT]	60	45	75.00	Dr. G. M. Savaliya

Course	Number of Students		Pass %	Name of faculty
Mechanics of Solids [MOS]	60	51	85.00	Prof. P. C. Vasani & Prof. M. N. Prajapati
Building and Town Planning	60	52	86.67	Prof. S. G. Chauhan
Design Engineering - I (B)[DE-I(B)]	57	57	100.00	Prof. S. G. Chauhan and Prof. M. N. Prajapati
Surveying [SUR]	57	57	100.00	Prof. H. U. Patel
Structural Analysis-I [SA-I]	57	57	100.00	Prof. M. N. Prajapati
Civil Engineering - Societal & Global Impact [CSGI]	57	57	100.00	Dr. C. G. Prajapati & Prof. M. N. Prajapati
Complex Variables and Partial Differential Equations[CVPDE]	57	57	100.00	Prof. R. H. Chaudhary
Fluid Mechanics & Hydraulics [FMH]	57	57	100.00	Dr. G. M. Savaliya and Prof. S. G.Chauhan
Design Engineering - II (A) [DE - II (A)]	54	54	100.00	Prof. N. R. Kotiya & Prof. R. K. Rathod
Cyber Security[CS]	54	54	100.00	Ms. Himani Thakker [Visiting Faculty]
Highway Engineering [HE}	54	47	87.04	Prof. H. U. Patel
Hydrology & Water Resources Engineering [HWR]	54	50	92.59	Prof. R. K. Rathod & Dr. G. M. Savaliya
Environmental Engineering [ENV]	54	52	96.30	Prof. S. G. Chauhan
Structural Analysis - II[SA - II]	54	49	90.74	Prof. Y. J. Chauhan
Soil Mechanics [SM]	54	48	88.89	Prof. N. R. Kotiya
Design Engineering - II (B) [DE-II(B)]	53	53	100.00	Prof. N. R. Kotiya and Prof. R. K. Rathod
Advanced Construction and Equipments [ACE]	53	53	100.00	Dr. G. M. Savaliya
Applied Fluid Mechanics [AFM]	53	53	100.00	Dr. G. M. Savaliya
Railway , Bridge and Tunnel Engineeirng [RBT]	53	53	100.00	Prof. H. U. Patel
Water and Waste Water Engineering [WWWE]	53	53	100.00	Prof. R. K. Rathod
Elementary Structural Desing [ESD]	53	53	100.00	Prof. Y. J. Chauhan and Prof. P. C. Vasani
Urban Transportation System [UTS]	53	53	100.00	Prof. S. G. Chauhan
Project - I[PROJ. - I]	67	67	100.00	All Faculty
Design of Reinforced Concrete Structure [DRCS]	67	61	91.04	Prof. P. C. Vasani &Prof. Y. J. Chauhan
Irrigation Engineering [IE]	67	65	97.01	Prof. S. G. Chauhan
Professional Practice and Valuation [PPV]	67	67	100.00	Dr. G. M. Savaliya
Traffic Engineering[TE]	67	64	95.52	Prof. H. U. Patel
Harbour & Airport Engineering [H&AE]	66	66	100%	Prof. H. U. Patel Prof. R. K. Rathod

Course	Number of Students		Pass %	Name of faculty
Project – II [PROJ.]	66	66	100%	All Faculties
Foundation Engineering [FE]	66	66	100%	Prof. N. R. Kotiya
Design of Steel Structures [DSS]	66	66	100%	Prof. Y. J. Chauhan
Construction Management [CM]	66	66	100%	Prof. S. G. Chauhan

ELECTRICAL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2019-20		Nos. of students appeared	Nos. of students passed	Pass %
FY	**I Sem**	**23**	**7**	**30.43**
	II Sem	**23**	**17**	**73.91**
SY	**III Sem**	**60**	**20**	**33.33**
	IV Sem	**58**	**51**	**87.93**
TY	**V Sem**	**63**	**40**	**63.49**
	VI Sem	**60**	**54**	**90**
LY	**VII Sem**	**55**	**49**	**89.09**
	VIII Sem	--------NA---------		

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

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
Programming for Problem Solving	23	16	69.57	Prof. H. V. Hirvaniya & Prof. M. K. Patel
Basic Electrical Engineering	23	13	56.52	Prof. H. N. Chaudhary & Prof. M. G. Prajapati
Environmental Studies	23	23	100	Prof. C. G. Prajapati
Engineering Graphics & Drawing	23	12	52.17	Prof. P. N. Boka
Mathas - I	23	11	47.83	Prof. F. J. Narsinsani & Prof. D. A. Patel
Induction Program	23	23	100	Prof. K. G. Prajapati
Indian Constitution	60	57	95	Prof. C. G. Prajapati
Design Engineering - I A	60	60	100	Prof. K. G. Prajapati & Prof. M. G. Prajapati
Control System Theory	60	44	73.33	Prof. M. K. Patel

Course	Number of Students		Pass %	Name of faculty
Electrical Circuit Analysis	60	25	41.67	Prof. B. R. Patel & Prof. K. G. Prajapati
Analog & Digital Electronics	60	34	56.67	Prof. B. R. Patel & Prof. N. A. Mistri
Applied Mathematics for Electrical Engineering	60	36	60	Prof. F. J. Narsinsani & Prof. D. A. Patel
DE - II A	63	63	100	Prof. H. N. Chaudhary & Prof. M. R. Suneja
Cyber Security	63	63	100	Prof. HNC, MGP,JHP,MRS
Power Electronics - I	63	50	79.37	Prof. M. G. Prajapati & Prof. N. A. Mistri
Elements Of Electrical Design	63	53	84.13	Prof. M. R. Suneja
Microprocessorand Microcontroller Interfacing	63	53	84.13	Prof. H. V. Hirvaniya & Prof. M. K. Patel
ELECTRICAL POWER SYSTEM - I	63	57	90.48	Prof. A. M. Patel & Prof. H. N. Chaudhary
Control System Engineering	63	47	74.60	Prof. H. V. Hirvaniya & Prof. J. H. Patel
Project - I	55	53	100	All Faculty Member
Inter Connected Power System	55	53	96.36	Prof. A. M. Patel & Prof. K. G. Prajapati
Switch Gear And Protection	55	53	96.36	Prof. A. M. Patel & Prof. J. H. Patel
Design of AC Machines	55	53	96.36	Prof. M. G. Prajapati & Prof. M. R. Suneja
Industrial Instrumentation	55	53	96.36	Prof. M. R. Suneja & Prof. N. A. Mistri

MECHANICAL ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2019-20		Nos. of students appeared	Nos. of students passed	Pass %
FY	**I Sem**	38	9	23.68
	II Sem	42	34	80.95
SY	**III Sem**	52	13	25
	IV Sem	53	48	90.57
TY	**V Sem**	55	45	81.82
	VI Sem	57	55	96.49
LY	**VII Sem**	70	64	91.43
	VIII Sem	68	68	100

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

Course	Number of Students		Pass %	Name of faculty
	Appeared	Passed		
3110002 ENG	42	35	83.33	AIR
3110003 PPS	42	36	85.71	ARC
3110005 BEE	42	35	83.33	KGP JHP
3110006 BME	42	34	80.33	PNB ADP
3110012 WS	42	36	85.71	AKP ADP
3110015 MATHS2	42	37	88.10	FJN RHC
3110004 BCE	38	22	57.89	RKR
3110007 ES	38	38	100	CGP
3110011 PHY	38	23	60.53	KMK
3110013 EGD	38	19	50	ADP NAM
3110014 MATHS1	38	17	44.74	FJN
3110017 INDUCTION	38	38	100	

Course	Number of Students		Pass %	Name of faculty
3130004 ETC	52	48	92.31	AIR
3130005 CVPDE	52	22	42.31	FJN
3130007 I Constitution	52	52	100	CGP
3130008 DE1A	52	51	98.08	SRM NTR
3131904 MSM	52	36	69.23	AKP
3131905 ET	52	27	51.92	SRM NNC
3131906 KTM	52	17	32.69	NNC NTR
3140005 DE1B	50	48	96.00	ARC KBJ
3141901 MMM	50	48	96.00	AKP
3141906 FMHM	50	48	96.00	VDP
3141907 FMD	50	48	96.00	ARC NTR
3141908 MP	50	48	96.00	JAV
3141909 OB	50	50	100	KBJ
2150001 DE2A	55	55	100	NAM NNC
2150002 CS	55	55	100	NTR
2151902 TOM	55	51	92.73	ARC NAM
2151903 FPE	55	51	92.73	AKP
2151907 DME	55	50	90.91	PNB
2151908 CE	55	53	96.36	ARC
2151909 HT	55	49	89.09	VDP
2160001 DE-2B	57	55	96.49	ABP PNB
2161901 DOM	57	55	96.49	PNB
2161902 IC	57	55	96.49	ADP
2161903 CAD	57	55	96.49	NAP
2161907 IE	57	55	96.49	JAV
2161908 RAC	57	55	96.49	VDP

Course	Number of Students		Pass %	Name of faculty
2161909 PT	57	55	96.49	NAP
2170001 PROJECT	70	68	97.14	
2171901 OR	70	67	95.71	JAV NTR
2171903 CAM	70	69	98.57	JAV NAP
2171909 MD	70	67	95.71	ADP
2171910 PPE	70	66	94.29	VDP SRM
2171912 OHP	70	68	97.14	NAP
2181909 Project – II	68	68	100	
2181910 REE	68	68	100	ABP
2181915 AE	68	68	100	ADP

MINING ENGINEERING DEPARTMENT

i. Overall result (Sem wise)

2019-20		Nos. of students appeared	Nos. of students passed	Pass %
FY	**I Sem**	7	1	14.29
	II Sem	11	5	45.45
SY	**III Sem**	11	1	9.09
	IV Sem	22	10	45.45
TY	**V Sem**	21	15	71.43
	VI Sem	21	21	100
LY	**VII Sem**	33	27	81.82
	VIII Sem	Result Awaited	Result Awaited	Result Awaited

ii. Subject wise (with name of faculty tutor)

COURSE	NUMBER OF STUDENTS	PASS %	NAME OF

	Appeared	Passed		FACULTY
Programming for Problem Solving	7	3	42.86	H K THAKER
Basic Electrical Engineering	7	2	28.57	J H PATEL
Environmental Sciences	7	7	100	DR. C G PRAJAPATI
Engineering Graphics & Design	7	4	57.14	A K PATEL
Mathematics – I	7	2	28.57	D A PATEL
Chemistry	11	7	63.64	DR. C G PRAJAPATI
English	11	5	45.45	DR. A.I.ROY
Basic Civil Engineering	7	5	71.43	R K RATHOR
Basic Mechanical Engineering	11	5	45.45	A B PATEL
Workshop/ Manufacturing Practices	11	5	45.45	A B PATEL/ J H PATEL
Mathematics –2	11	6	54.55	D A PATEL
Effective Technical Communication	11	11	100	DR. A.I.ROY
Complex Variables and Partial Differential Equations	11	4	36.36	D A PATEL/ R H CHAUDHARY
Indian Constitution	11	11	100	DR. C G PRAJAPATI/ H.N.CHAUDHARY
Design Engineering - I A	11	11	100	H.B.PATEL
Mechanics of Solids	11	9	81.82	M N PRAJAPATI
Introduction to Mining	11	2	18.18	J.V.MODI
Geology	11	7	63.64	H.B.PATEL
Design Engineering 1 B	8	8	100	H.B.PATEL
Mining Machinery - I	8	8	100	SURAJ KUMAR
Mine Surveying - I	8	8	100	V D PRAJAPATI
Mine Management and General Safety	8	8	100	K.M.KOROT
Mining Geology	8	8	100	H.B.PATEL
Rock Mechanics	8	8	100	J.V.MODI
Design Engineering - II A	21	21	100	H.B.PATEL
Institute Elective - Disaster Management	21	20	95.24	J.V.MODI
Mining Machinery - II	21	18	85.71	SURAJ KUMAR
Rock Mechanics	21	20	95.24	SURAJ KUMAR
Advance Mine Surveying	21	17	80.95	J.V.MODI
Underground coal Mining	21	20	95.24	SURAJ KUMAR/ M. B. OZA
Design Engineering - II B	21	21	100	H.B.PATEL
Ecology Geology-I	21	21	100	H.B.PATEL
Underground Metal Mining	21	21	100	J.V.MODI
Mine Hazards	21	21	100	V D PRAJAPATI
Mine Surface Environment	21	21	100	JISAN ALI
Computer Application Mining	21	21	100	SURAJ KUMAR/ JISAN ALI
Mine Ventilation	21	21	100	SURAJ KUMAR

Project - I	33	33	100	J.V.MODI, SURAJ KUMAR
Environment Management In Mine	33	33	100	J.V.MODI
Mineral Processing	33	32	96.97	SURAJ KUMAR
Rock Fragmentation	33	31	93.94	SURAJ KUMAR
Mine Planning	33	28	84.85	JISAN ALI/J V MODI
Mine Legislation	33	33	100	V D PRAJATI/ SURAJ KUMAR
Advance Mining Method	Result Awaited	Result Awaited	Result Awaited	SURAJ KUMAR
Mine Mineral and Economics	Result Awaited	Result Awaited	Result Awaited	JISAN ALI
Mining and Processing of Dimensional Stone	Result Awaited	Result Awaited	Result Awaited	J.V.MODI
Mine Safety Engineering	Result Awaited	Result Awaited	Result Awaited	V D PRAJATI
Project-II	Result Awaited	Result Awaited	Result Awaited	J.V.MODI, SURAJ KUMAR
Geological Exploration of Mineral Deposits	Result Awaited	Result Awaited	Result Awaited	H B PATEL/ JISAN ALI

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:

- Has the Teacher covered entire syllabus as prescribe by University
- Has the Teacher covered relavant topics beyond syllabus
- "Effectivness of Teacher in terms of:
- Pace on which content were covered
- Motivation & inspiration for students to learn
- "Support for the development of students skill
- Clarity of expectation of students
- Feedback provided on students progress
- Willingness to offer help and advice to students

- 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

Sr. No.	Name of Staff	Sem	Subect with Code	No. of Feedback	Performance/ Subject (%)	Overall Performance (%)
1	**Prof.P.C.Vasani**	VII	DRCS	30	92.00%	**91.59%**
2		III	MOS	30	91.19%	
3	**Prof. G.M.Savaliya**	VII	PPV	30	93.33%	**92.72%**
4		V	HWR	30	90.89%	
5		III	BCT	30	93.93%	
6	**Prof. H.U.Patel**	VII	TE	30	85.19%	**85.70%**
7		V	HE	30	86.22%	
8	**Prof. S.G.Chauhan**	VII	IE	30	91.78%	**92.96%**
9		V	ENV	30	93.04%	
10		III	BTP	30	94.07%	
11	**Prof. Y.J.Chauhan**	VII	DRCS	30	89.11%	**89.52%**
12		V	SA-2	30	89.93%	
13	**Prof. N.R.Kotiya**	V	SM	30	84.96%	**79.26%**
14		III	GT	30	73.56%	
15	**Prof. R. K. Rathod**	V	HWR	30	81.78%	**80.00%**
16		I	ES	30	78.22%	
17	**Prof. M.N.Prajapati**	III	MOS	30	91.56%	**90.22%**
18		III	GT	30	88.89%	
19	**Prof. A.I.Roy**	III	ETC	30	81.56%	**81.56%**
20	**Prof. C.G.Prajapati**	III	IC	30	75.56%	**75.56%**
21	**Prof. J.H.PATEL**	I	BEE	30	90.74%	**90.74%**
22	**Prof. K.G.PRAJAPATI**	I	BEE	30	75.93%	**75.93%**
23	**Prof. K.M.KOROT**	I	PHYSICS	30	87.26%	**87.26%**
24	**Prof. R.H.CHAUDHARY**	I	MATHS	30	74.81%	**74.81%**
25	**Prof. D.A.PATEL**	I	MATHS	30	62.00%	**62.00%**
26	**Prof. N.T.RAVAL**	I	EG	30	52.44%	**52.44%**
27	**Prof. A.D.PATEL**	I	EG	30	90.07%	**90.07%**

EVEN SEM

Sr. No.	Name of Staff	Sem	Subect with Code	No. of Feedback	Performance / Subject (%)	Overall Performance (%)
1	**Prof.P.C.Vasani**	VI	Elementary Structural Design(2160607)	30	88.22%	**88.22%**
2	**Prof M. H. LUNAGARIYA**	VIII	Construction Management (2180611)	30	82.67%	**86.41%**
		VI	Advanced Construction and Equipments (2160601)	30	90.15%	
3	**Prof. G. M. Savaliya**	IV	Fluid mechanics & hydraulics (3140611)	30	83.41%	**86.54%**
		VI	Advanced Construction and Equipments (2160601)	30	88.07%	
		VI	Applied Fluid Mechanics (2160602)	30	88.15%	
4	**Prof. H. U. Patel**	IV	Surveying (3140601)	30	82.74%	**91.16%**
		VI	Railway, Bridge & Tunnel Engineering(2160603)	30	95.63%	
		VIII	Harbour & Airport Engineering (2180602)	30	95.11%	
5	**Prof. S. G. Chauhan**	IV	Fluid mechanics & hydraulics (3140611)	30	77.56%	**84.61%**
		VI	Applied Fluid Mechanics (2160602)	30	87.04%	
		VIII	Construction Management (2180611)	30	93.85%	
		IV	Design Engineering 1 B (3140005)	30	80.00%	
6	**Prof. Y. J. Chauhan**	VI	Elementary Structural Design(2160607)	30	86.59%	**90.52%**
		VIII	Design of Steel Structures(2180610)	30	94.44%	
7	**Prof. N. R. Kotiya**	VIII	Foundation Engineering(2180609)	30	95.48%	**92.63%**
		VI	Design Engineering - II B (2160001)	30	89.78%	
8	**Prof. R. K. Rathod**	II	BASICS OF CIVIL ENGINEEIRNG (3110004)	30	84.67%	**91.41%**
		VI	Water & Waste Water Engineering(2160604)	30	93.48%	
		VI	Design Engineering - II B (2160001)	30	91.41%	

		VIII	Harbour & Airport Engineering (2180602)	30	96.07%	
9	**Prof. M. N. Prajapati**	IV	Structural Analysis-1 (3140603)	30	87.19%	**88.20%**
		IV	Civil Engineering - Societal & Global Impact (3140609)	30	88.30%	
		IV	Design Engineering 1 B (3140005)	30	89.11%	
10	**Prof. C. G. PRAJAPATI**	IV	Civil Engineering - Societal & Global Impact (3140609)	30	79.78%	**79.78%**
11	**Prof. A. I. ROY**	II	English (3110002)	30	80.74%	**80.74%**
11	**Prof. A. B. PATEL**	II	Basics of Mechanical Engineering (3110006)	30	79.78%	**78.49%**
		II	Workshop (3110012)	30	77.19%	
12	**Prof. H. K. THAKAR**	II	PROGRAMMING FOR PROBLEM SOLVING (3110003)	30	82.67%	**82.67%**
13	**Prof. D. A. PATEL**	II	MATHEMATICS-2 (3110015)	30	80.74%	**80.74%**
14	**Prof. J. A. VADHER**	II	Workshop (3110012)	30	79.26%	**79.26%**
15	**Prof. N.A.PATEL**	II	Workshop (3110012)	30	79.26%	**79.26%**
16	**Prof. J. H. PATEL**	II	Workshop (3110012)	30	82.89%	**82.89%**
17	**Prof. M. K. PATEL**	II	Workshop (3110012)	30	77.19%	**77.19%**
18	**Prof. R. H. CHAUDHARY**	II	COMPLEX VARIABLES AND PARTIAL DIFFERENTIAL EQUATION (3140610)	30	84.74%	**84.74%**

ELECTRICAL ENGINEERING DEPARTMENT

Semester I

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. D A Patel	Mathematics-I	3110014	528	720	73.33%
2	Prof. F J Narsingani			610	720	84.72%
3	Prof. P N Boka	Engineering Graphics & Design	3110013	516	720	71.67%
5	Prof. C.G.Prajapati	Environmental Science	3110007	604	720	83.69%
4	Prof. H V Hirvaniya	Programming for Problem Solving	3110003	575	720	79.86%
5	Prof. M K Patel			549	720	76.25%
7	Prof. H N Chaudhary	Basic Electrical Engineering	3110005	571	720	79.71%
8	Prof. M G Prajapati			559	720	77.64%

Semester III

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. D A Patel	Applied Mathematics for Electrical Engineering	3130908	1168	1665	70.15%
2	Prof. F J Narsingani			1350	1665	81.05%
3	Prof. Agnel Roy	Effective Technical Communication	3130004	1192	1665	71.59%
4	Prof. M K Patel	Control System Theory	3130905	1308	1665	78.56%

5	Prof. C.G.Prajapati	Indian Constitution	3130007	1166	1665	70.03%
4	Prof. B.R.Patel	Electrical Circuit Analysis	3130906	1120	1665	67.27%
5	Prof. K.G.Prajapati			1163	1665	69.85%
7	Prof. B.R.Patel	Analog & Digital Electronics	3130907	1112	1665	66.79%
8	Prof. N A Mistry			1316	1665	79.04%

Semester IV

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. C G Prajapati	Economics for Engineers	3140911	574	855	67%
2	Prof. J H Patel			717	855	84%
3	Prof. H N Chaudhary	Electromagnetic Field	3140912	629	855	74%
4	Prof. K G Prajapati	Electrical Machine-1	3140919	630	855	74%
5	Prof. M R Suneja			624	855	73%
4	Prof. A M Patel	Power System-1	3140914	687	855	80%
5	Prof. J H Patel			731	855	85%
7	Prof. H V Hirvaniya	Power Electronics	3140915	705	855	82%
8	Prof. N A Mistry			608	855	71%

Semester V

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. M. G. Prajapati	Power Electronics-1	2150903	1605	1980	81%
2	Prof. N. A. Mistry			1266	1980	64%
3	Prof. M. R. Sunejha	EED	2150904	1455	1980	73%
4	Prof. H. V. Hirwaniya	MMI	2150907	1598	1980	81%
5	Prof. M. K. Patel			1694	1980	86%
4	Prof. A. M. Patel	EPS 1	3130905 2150908	1736	1980	88%
5	Prof. H. N. Chaudhari			1299	1980	66%
7	Prof. H. V. Hirwaniya	CSE	2150909	1611	1980	81%
8	Prof. J. H. Patel			1796	1980	91%
10	Prof. M. R. Sunejha	CS	2150002	1426	1980	72%
11	Prof. H. N. Chaudhari			1355	1980	68%

Semester VI

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. N. A. Mistry	PE II	2160902 2160904	1779	2655	67%
2	Prof. M. K. Patel	HVE		2168	2655	82%
3	Prof. H. V. Hirwaniya	UEET	2160907 2160908	2149	2655	81%

4	Prof. K. G. Prajapati	EPS-II		1743	2655	66%
5	Prof. M. R. Sunejha	DDCMT	2160912	1738	2655	66%
6	Prof. M. G. Prajapati			2157	2655	81%
7	Prof. M. G. Prajapati	CED	2160913	2140	2655	81%

Semester VII

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. Alpesh M. Patel	Inter Connected Power System	2170901	1201	1260	95.32%
2	Prof. K G Prajapati			986	1260	78.25%
4	Prof. N A Mistry	Industrial Instrumentation	2170913	718	1260	56.98%
5	Prof. M R Suneja			693	1260	55%
4	Prof. A M Patel	Switch Gear and Protection	2170908	1191	1260	94.52%
5	Prof. J H Patel			1094	1260	86.83%
7	Prof. K G Prajapati	Design of AC Machines	2170909	1152	1260	91.41%
8	Prof. M R Suneja			720	1260	57.14%

MECHANICAL ENGINEERING DEPARTMENT

SEMESTER 1

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. A D Patel	Engineering Graphics & Design	3110013	1202	1350	89.04%
2	Prof. F J Narsingani	Mathematics – I	3110014	1172	1350	86.81%
3	Prof. R. H. Chaudhary	Mathematics – I	3110014	1147	1350	84.96%
4	Prof. K. M. Korot	PHYSICS	3110011	1179	1350	87.33%
5	Prof. C. G. Prajapati	Environmental Sciences	3110007	1130	1350	83.70%
6	Prof. H. U. Patel	Basic Civil Engineering	3110004	1149	1350	85.11%
7	Prof. R. K. Rathod	Basic Civil Engineering	3110004	1133	1350	83.93%

SEMESTER 2

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. A I Roy	English	3110002	1106	1350	81.93%
2	Prof. P N Boka	Basic of Mechanical Engineering	3110006	1120	1350	82.96%
3	Prof. A D Patel	Basic of Mechanical Engineering	3110006	1137	1350	84.22%
4	Prof. F J Narsingani	Mathematics –2	3110015	1117	1350	82.74%
5	Prof. R. H. Chaudhary	Mathematics –2	3110015	1106	1350	81.93%
6	Prof. H N Chaudhary	Basic Electrical Engineering	3110005	1109	1350	82.15%
7	Prof.A.R.Chaudhari	Programming for Problem Solving	3110003	1148	1350	85.04%

SEMESTER 3

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof. F. J. Narsingani	Complex Variables and Partial Differential Equations	3130005	974	1215	80.16%
2	Prof. R H Chaudhary	Complex Variables and Partial Differential Equations	3130005	938	1215	77.20%
3	Prof. N T Raval	Engineering Thermodynamics	3131905	958	1215	78.85%
4	Prof S R Modi	Engineering Thermodynamics	3131905	901	1215	74.16%
5	Prof. A K Patel	Material Science and Metallurgy	3131904	1115	1215	91.77%
6	Prof. N A Patel	Material Science and Metallurgy	3131904	1133	1215	93.25%
7	Dr. Agnel Roy	Effective Technical Communication	3130004	955	1215	78.60%
8	Prof.A.R.Chaudhari	Kinematics and Theory of Machines	3131906	832	1215	68.48%
9	Prof. P N Boka	Kinematics and Theory of Machines	3131906	854	1215	70.29%
10	Prof.N.T.Raval	Kinematics and Theory of Machines	3131906	1018	1215	83.79%
11	Prof.N. N. Chuadhary	Kinematics and Theory of Machines	3131906	1095	1215	90.12%

SEMESTER 4

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Dr.K.B.Judal	Organisational Behaviour	3141909	1233	1350	91.33%
2	Dr.J.A.Vadher	Manufacturing Processes	3141908	1254	1350	92.89%

3	Prof.V.D.Patel	Fluid Mechanics and Hydraulics Machines	3141906	1305	1350	96.67%
4	Prof.A.R.Chaudhari	Fundamentals of Machine Design	3141907	1131	1350	83.78%
5	Prof.N.T.Raval	Fundamentals of Machine Design	3141907	1028	1350	76.15%
6	Prof.A.K.Patel	Mechanical Measurement and Metrology	3141901	1216	1350	90.07%
7	Prof.A.K.Patel	Manufacturing Processes	3141908	1192	1350	88.30%

SEMESTER 5

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Dr.J.A.Vadher	Control Engineering	2151908	1175	1350	87.04%
2	Prof.A.R.Chaudhari	Theory of Machines	2151902	1169	1350	86.59%
3	Prof.A.K.Patel	Fluid Power Engineering	2151903	1140	1350	84.44%
4	Prof.V.D.Patel	Heat Transfer	2151909	1183	1350	87.63%
5	Prof. P N Boka	Design of Machine Elements	2151907	1146	1350	84.89%
6	Prof.N.T.Raval	Cyber Security	2150002	1156	1350	85.63%
7	Prof.A.R.Chaudhari	Control Engineering	2151908	1186	1350	87.85%

SEMESTER 6

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Dr.J.A.Vadher	Industrial Engineering	2161907	1192	1350	88.30%
2	Prof.N A.Patel	Computer Aided Design	2161903	1179	1350	87.33%
3	Prof. P N Boka	Dynamics Of Machines	2161901	1169	1350	86.59%
4	Prof.V.D.Patel	Refrigeration And Air Conditioning	2161908	1178	1350	87.26%
5	Prof.N A.Patel	Production Technology	2161909	1199	1350	88.81%
6	Prof.A.D.Patel	Internal Combustion Engine	2161902	1200	1350	88.89%

SEMESTER 7

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Dr.J.A.Vadher	Computer Aided Manufacturing	2171903	1229	1350	91.04%
2	Prof.N A.Patel	Computer Aided Manufacturing	2171903	1213	1350	89.85%
3	Dr.J.A.Vadher	Operatin Research	2171901	1216	1350	90.07%
4	Prof.N.T.Raval	Operatin Research	2171901	1197	1350	88.67%
5	Prof.V.D.Patel	Power Plant Engineering	2171910	1201	1350	88.96%
6	Dr.J.A.Vadher	Power Plant Engineering	2171910	1196	1350	88.59%
7	Prof.A.D.Patel	Machine Design	2171909	1207	1350	89.41%
8	Prof.N A.Patel	Oil Hydraulics and Pneumatics	2171912	1202	1350	89.04%

SEMESTER 8

Sr No	Name of Faculty	Subject Name	Subject Code	Points Achieved	Total Points	Percentage
1	Prof.A.B.Patel	Renewable Energy Engineering	2181910	1232	1350	91.26%
2	Prof.A.D.Patel	Internal Combustion Engine	2181915	1236	1350	91.56%

MINING ENGINEERING DEPARTMENT

Semester I

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	PPS 3110003	H K THAKER	239	315	**76**
2	BEE 3110005	J H PATEL	268	315	**85**
3	ES 3110007	DR. C G PRAJAPATI	271	315	**86**
4	EG 3110013	A K PATEL	271	315	**86**
5	MATHS-I 3110014	D A PATEL	268	315	**85**

Semester II

Sr No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	CHEMISTRY 3110001	DR. C G PRAJAPATI	271	315	**86**
2	ENGLISH 3110002	DR. A.I.ROY	265	315	**84**
3	BCE 3110004	R K RATHOR	261	315	**83**
4	BME 3110006	A B PATEL	268	315	**85**
5	WS 3110012	A B PATEL/J H PATEL	268	315	**85**
6	MATHS – II 3110015	D A PATEL	271	315	**86**

Semester III

Sr No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	ETC 3130004	DR. A.I.ROY	416	495	**84**
2	CVPDE 3130005	D A PATEL/ R H CHAUDHARY	421	495	**85**
3	IC 3130007	DR. C G PRAJAPATI /H.N.CHAUDHARY	426	495	**86**
4	DE-1A 3130008	H.B.PATEL	421	495	**85**

5	MOS 3130608	M N PRAJAPATI	416	495	**84**
6	IM 3132201	J.V. MODI	426	495	**86**
7	GEOLOGY 3132203	H.B.PATEL	426	495	**86**

Semester IV

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	DE-1B 3140005	H B PATEL	492	585	**84**
2	MS-I 3142202	V D PRAJAPATI	438	585	**74**
3	MM-I 3142201	SURAJ KUMAR	503	585	**86**
4	MMGS 3142207	Dr. K M KORORT	486	585	**83**
5	MG 3142208	H.B.PATEL	498	585	**85**
6	RM 3142209	J V MODI	503	585	**86**

Semester V

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	DM 2150002	J V MODI	1033	1215	**85**
2	AMS 2152205	J.V.MODI	1045	1215	**86**
3	UCM 2152206	M. B. OZA/SURAJ KUMAR	1021	1215	**84**
4	RM 2152204	SURAJ KUMAR	1045	1215	**86**
5	MM-2 2152201	SURAJ KUMAR	1033	1215	**85**

Semester VI

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	CAM 2162206	SURAJ KUMAR/ JISAN ALI	870	1035	**84**
2	MSE 2162205	JISAN ALI	776	1035	**75**
3	UMM 2162202	J.V.MODI	880	1035	**85**
4	EG-I 2162201	H B PATEL	859	1035	**83**
5	MV 2162207	SURAJ KUMAR	890	1035	**86**
6	MH 2162204	V D PRAJAPATI	776	1035	**75**

Semester VII

Sr. No.	Subject name & code	Faculty Name	Points Achieved	Total Points	Percentage
1	RF 2172207	SURAJ KUMAR	1393	1620	**86**
2	MP 2172201	JISAN ALI/J V MODI	1361	1620	**84**
3	ML 2172202	V D PRAJATI/ SURAJ KUMAR	1361	1620	**84**
4	EMM 2172203	J V MODI	1377	1620	**85**
5	MPr 2172204	SURAJ KUMAR	1377	1620	**85**

CO-CURRICULAR ACTIVITIES

CO-CURRICULAR ACTIVITIES

A. Induction Program

(For 1st year students)

From: 18/7/2019 to 7/8/2019 (A. Y.: 2019-20)

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 head and three members.

Sr. No.	Name of Officer	Designation	Position in committee
1	Prof. A. D. Patel	Asst. Professor Mech	Head
2	Prof. K. G. Prajapati	Asst. Professor Elect.	Member
3	Prof. S. G. Chauhan	Asst. Professor Civil	Member
4	Prof. Surajkumar 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:

Date	Time	Class 1 (Mech)	Class 2 (Civil)	Class3 (Civil+Elect+Min)
18-07-19	10:30 to 5:10	Initial Phase (ADP/KGP/SGC/JVM)		
19-07-19	10:30 to 12:30	PM (PDP)	PM (PDP)	LT (NTR) DIGITAL LITERACY
	1:00 to 3:00	CA (NNC)	CA (NNC)	CA (NAM)
	3:10 to 6:10	PA (HUP)	PA (KMK)	PA (RKR)
20-07-19	10:30 to 12:30	RHC (MATHS-1)	RHC (MATHS-1)	PNB (EG)
	1:00 to 3:00	CA (JHP)	CA (JHP)	CA (CGP)
	3:10 to 6:10	PA (FJN)	PA (KMK)	PA (DAP)
22-07-19	10:30 to 12:30	CA (CGP)	CA (CGP)	CA (NAM)
	1:00 to 3:00	Lectures by Eminent People (ADP/CGP/KGP)		
	3:10 to 6:10	PA (KMK)	PA (KMK)	PA (DAP)
23-07-19	10:30 to 12:30	PNB (EG)	PNB (EG)	NTR (EG)
	1:00 to 3:00	CA (JHP)	CA (JHP)	CA (CGP)
	3:10 to 6:10	PA (SRM)	PA (KMK)	PA (DAP)
24-07-19	10:30 to 12:30	RKR (BCE)	DAP (MATHS 1)	MKP (PPS)
	1:00 to 3:00	CA (NNC)	CA (NNC)	CA (NAM)
	3:10 to 5:10	LT (NTR) DIGITAL LITERACY	PM (PDP)	PM (PDP)
25-07-19	Full Day	Visit to local Areas or Industry (SGC/JVM)		
26-07-19	10:30 to 12:30	KMK (PHY)	LT (NTR) DIGITAL LITERACY	CGP (ES)
	1:00 to 3:00	CA (NNC)	CA (NNC)	CA (NAM)
	3:10 to 6:10	PA (HUP)	PA (KMK)	PA (RKR)
29-07-19	10:30 to 12:30	CGP (ES)	KGP (BEE)	KGP (BEE)
	1:00 to 3:00	UHV (ADP)	UHV (ADP)	UHV (ADP)
	3:10 to 6:10	PA (FJN)	PA (KMK)	PA (DAP)
30-07-19	10:30 to 12:30	PNB (EG)	PNB (EG)	CGP (ES)
	1:00 to 3:00	UHV (CGP)	UHV (CGP)	UHV (CGP)
	3:10 to 6:10	PA (SRM)	PA (KMK)	PA (DAP)
31-07-19	10:30 to 12:30	RKR (BCE)	CGP (ES)	NAM (EG)
	1:00 to 3:00	LT (FJN) ELOCUTION/DEBATE	LT (FJN) ELOCUTION/DEBATE	LT (RHC) ELOCUTION/DEBATE
	3:10 to 6:10	PA (KMK)	PA (KMK)	PA (FJN)
01-08-19	10:30 to 12:30	KMK (PHY)	CGP (ES)	HNC (BEE)
	1:00 to 3:00	Lectures by Eminent People (ADP/CGP/KGP)		
	3:10 to 6:10	LT (FJN) G.K. QUIZ	LT (KMK) G.K. QUIZ	LT (DAP) G.K. QUIZ

02-08-19	10:30 to 12:30	PM (PDP)	KMK (PHY)	PM (PDP)
	1:00 to 3:00	UHV (ADP)	UHV (ADP)	UHV (ADP)
	3:10 to 6:10	LT (HUP) INTERNET	LT (KMK) INTERNET	LT (RKR) INTERNET
03-08-19	10:30 to 12:30	Lectures by Eminent People (ADP/CGP/KGP)		
	1:00 to 3:00	RHC (MATHS-1)	RHC (MATHS-1)	DAP (MATHS-1)
	3:10 to 6:10	UHV (KBJ)	UHV (KBJ)	UHV (KBJ)
05-08-19	10:30 to 12:30	CGP (ES)	HNC (BEE)	HVH (PPS)
	1:00 to 3:00	PM (CGP)	PM (CGP)	PM (CGP)
	3:10 to 6:10	UHV (KGP)	UHV (KGP)	UHV (KGP)
06-08-19	10:30 to 12:30	KMK (PHY)	KMK (PHY)	FJN (MATHS-1)
	1:00 to 3:00	LT (MKP) SCINTIFIC CALCULATOR	LT (MKP) SCINTIFIC CALCULATOR	LT (JHP) SCINTIFIC CALCULATOR
	3:10 to 6:10	Innovations: 1. Lectures by senior faculties (3:10 to 4:10) - SGC 2. Awareness regarding SSIP Scheme (4:10 to 4:40) - NAP 3. Awareness regarding Entrepreneurship (4:40 to 5:10) - PNB 4. Videos demonstrating innovation (5:10 to 5:40) - SGC 5. Introducing innovative technology/products (5:40 to 6:10) - SGC		
07-08-19	10:30 to 5:10	Closing Phase (ADP/KGP/SGC/JVM)		

Seating Arrangement:

Class	Room No	Venue (Building)	Floor	Students of
Class 1	5109	Mechanical Department	1st	Mechanical (All)
Class 2	7104	Civil Department	1st	Civil ((upto roll no. 6056)
Class 3	4109	Electrical Department	1st	Elect.+Civil(onwards)+Mining

Each and Every activity was conducted and monitored.

Activities Performed during Induction Program

1. Initial Phase (First Day)

Following are the activities which were carried on the first day (18/7/2019):

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

Detailed schedule was as under:

Sr. No.	Information	Name of Staff	Duration	Time (min.)
1	Prarthana	-	5min	10:30 to 10:35

2	GTU Anthem	-	5min	10:35 to 10:40
3	College documentary	-	5min	10:40 to 10:45
4	NSS documentary	Prof. C. G. Prajapati	5min	10:45 to 10:50
5	Welcome speech	Prof. A. D. Patel	5min	10:50 to 10:55
6	Occasional Speech	Principal sir	20min	10:55 to 11:15
7	Registration process	Prof. V. D. Patel/ Mrs. S. B. Chaudhari	1hr 30min	11:15 to 12:30
8	Recess	-	1hr	12:30 to 1:30
9	Know Hostel	Dr. P. C. Vasani/ Prof. H. N. Chaudhari	15min	1:30 to 1:45
10	Know your University	Prof. V. D. Patel	15min	1:45 to 2:00
11	Scholarship information	Prof. K.G.Prajapati	15min	2:00 to 2:15
12	Information about student diary and Induction program	Prof. A. D. Patel	15min	2:15 to 2:30
13	Know your Department/Institute	-	30min	2:30 to 3:00

2. Regular phase (19/7/19 to 6/8/19)

The Regular Phase was of 15 days, each day was of 7 hours. It covered all the 8 different activity modules.

(a) Physical Activity

Following activities were covered for 24 hours.

i. Daily for 15 min parade session was held to teach discipline, power of unity and manner to the students.
ii. Every day for 30 min 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.
iv. Various outdoor Sports and Indoor Games like મંડલ અંદર, વિષ-અમૃત, ઝેરી દેડકો, કબડ્ડી, ખો, મેદાન, etc. were Included. Students were enjoyed these all games very much.

(b) Creative Arts

Following activities were covered for 12 hours:

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

ii. Group of 8 senior students was formed to carry out these five arts who are having lead in the same.

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

(c) Universal Human Values

Following activities were covered for 12 hours:

i. 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.
iv. Autobiography of A.P.J. Abdul kalam and Gandhiji were discussed who practiced universal human values in their life and work.
v. Conducted universal human values group discussions.

(d) Literary

Following activities were covered for 12 hours:

i. Digital literacy
ii. Use of Internet
iii. Basic Mathematics for Solving Real World Problems
iv. Use of Scientific Calculator in Engineering
v. General Knowledge Quiz Competition (60 questions for 1hr)
vi. Vedic Mathematics
vii. Reading/writing/speaking/listening
viii. Elocution/Debate

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

(e) Proficiency modules

Following activities were covered for 6 hours:

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

(f) Lectures by Eminent people

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

i. On 22/7/19 talk of Dr. Abdul Quddus was planned. He shared his life journey. He shared his spiritual knowledge with students. “God is great”, told Dr. Abdul.

ii. On 1/8/2019, as an eminent people Sri Shaktiraj was invited. He is from International Center of BRAHMAKUMARI-Mount Abu. He is an international speaker. He had equipped the students with the knowledge of inherent capability and Restrain. He explained actual meaning of BRAHMAKUMARIS. On the topic “How to improve mind power” he focused his talk.

iii. On 3/8/2019 session on “**Bharatiy sanskriti”** was planned and delivered by sri. Prabhudas from Palanpur. “How our nation is important for everyone and why”, explained by him. That was very meaningful speech for this diverted generation.

(g) Visit to Local Area and Industry

i. On 25/7/2019 for full day visit to local area and Industry was arranged. Total 60 students of mechanical and electrical department were visited banas dairy. Prof. A. D. Patel and Prof. K. G. Prajapati had accompany the students. They visited cheese plant, packing plant, boiler section and substation division.

ii. 55 students of civil department were visited the site Radhe Villa Bungalows. Radhe Villa is located near the Gayatri Temple and Hello Point Hotel on the Abu Highway in Palanpur city. Prof. S. G. Chauhan had accompany the students. During this visit, students were very excited. They have got exposer of role of civil engineer in construction area. There was a nice question-answer session between students and contractor & engineer posted there. "This site is of 3BHK Duplex Bungalows having R.C.C. frame structure and Earthquake proof structure", Said engineer Bharatbhai.

iii. Prof. J. V. Modi had accompany the students during visit at Ambaji marbles. Students of mining department were drawn to this site for understanding cutting, grinding and polishing of marble and granite blocks which were carried out from the nearby mines of Palanpur. There were various machineries for handling the block to cut that blocks in to required size of slice for its effective use. The students eagerly observed all the units with its real time operations.

During visit students were exposed in their field of engineering and are realized the actual field work.

(h) Innovation

Three hours session on 6/8/19 from 3:10 to 6:10 under innovation were arranged. Detailed contents of the session are:

Sr. No.	Time	Content	Staff
1	3:10 to 4:10	Lectures by senior faculties	Prof. P. C. Vasani
2	4:10 to 4:40	Awareness regarding SSIP Scheme	Prof. N. A. Patel
3	4:40 to 5:10	Awareness regarding Entrepreneurship	Prof. P. N. Boka
4	5:10 to 5:40	Videos demonstrating innovation	Prof. S. G. Chauhan
5	5:40 to 6:10	Introducing innovative technology/products	Prof. S. G. Chauhan

1. Lectures by senior faculties (3:10 to 4:10) – SGC
2. Awareness regarding SSIP Scheme (4:10 to 4:40) – Nap
3. Awareness regarding Entrepreneurship (4:40 to 5:10) – PNB
4. Videos demonstrating innovation (5:10 to 5:40) – SGC
5. Introducing innovative technology/products (5:40 to 6:10) - SGC

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 (7/8/2019):

- 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.
- Students were addressed by HODs regarding branch/discipline and career option in respective branch.
- There was a feedback session regarding the way by which induction program conducted in the institute. 5 to 6 students from all branches had given their feedback. They all have appreciated the mode and contents of program conducted. They all were very much thankful to Principal and the faculties who were concern with this induction program.

- Students were made familiarize with department infrastructure, laboratory setup, staff seating and class rooms.

B. Personality Developments

Following programs have been arranged for personality development of students

1) DISASTER MANAGEMENT AND RESCUE OPERATION TRAINING :

One day workshop held on Disaster Management and Rescue Operation at GEC Palanpur by NSS UNIT on 20-07-2019. NDRF team gives the training with demonstaration and Students actively participated and got the benefit of this seminar. In this seminar Invitee talks on the very important keys on Disaster and Rescue Operation. In this Workshop more than 150 students participated.

C. Career Guidance/Gate Cournseling/Mock Interview

A Seminar on Study in Abroad and VISA Guidance (Career guidance) was organized at our institute by NSS TEAM on 2nd January 2020 . Experts Hiteshriben and Gokulbhai counsellor guided the students about the requirements for study in abroad and how can students go for higher study in different countries. They also explain the importance in abroad and how students can able to make their bright career. They also guide to students ahow can students get their VISA through online with just only Government Fees. Faculties, HODs and students were got the benefit of this seminar.

D. Finishing School

Institute has organized 5days skill development training through finishing school. Our college allocated first set of twenty hours of training in four batches from 9/12/2019 to 13/12/2019. The registered students have participated in the first twenty hours training. This initiation was welcomed by our students and they participated actively in the all the session's. These sessions were lead by empanelled trainers who executed the assigned task in most interactive way. The topics covered were mainly focused on employability skills and 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 told what is expected by post globalised millennial child in terms of employability as fresher.

The photographs of the training are attached herewith.

Student participants during training: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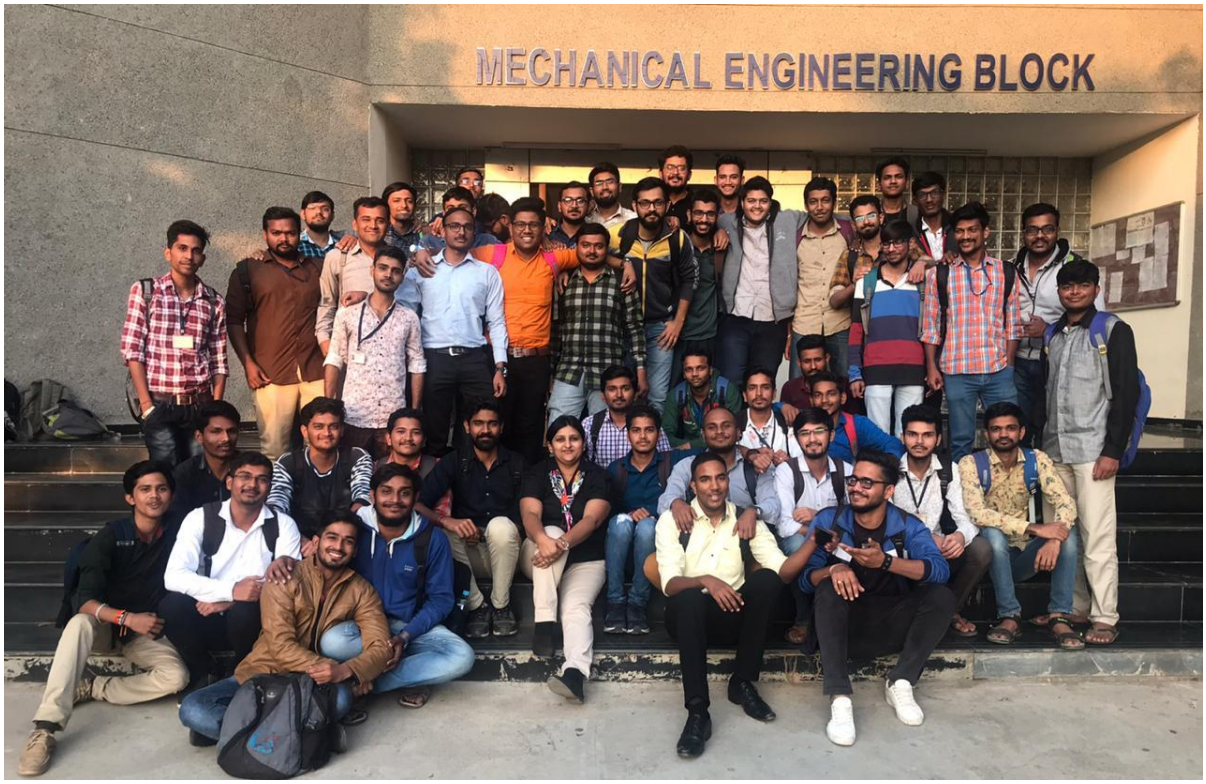
Group Photos



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 2020. 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 2020
Place	Workshop , Government Engineering College, Palanpur
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)

DUE TO COVID-19 PANDEMIC, THIS EVENT HAS BEEN CANCELLED

F. Entrepreneurship Development Initiatives

Introduction

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

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

Objectives:

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

Establishment:

Government Engineering College, Palanpur has developed Entrepreneurship Development Cell (EDC) with programme Coordinator and two members on 01/07/2017. Institute has applied for District level Entrepreneurship Development Centre on 21th November, 2017. On 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.

CED, Ahmedabad had organized interactive meet **of the Programme Co-ordinator at CED Campus, Naroda GIDC, Naroda, Ahmedabad on 17th May, 2018**. Prof. P. N. Boka had attended this meeting. CED have appointed handholding support agency M/s Aark Infosoft Pvt. Ltd.(now called agency) which will provide hand holding support to our institute in promoting Entrepreneurship Development Programme, will give hand holding support to trainees of CED and trainees of our E.D Cell for Project identification, preparation of Project report, submission and sanction of bank loan and subsidy etc.

All faculties member of Institute have attended one day program on “Human Resource Development” 21/12/2019

G. Summer Training

Sr No.	Name of Industry	Date	Duration	No. of Student	Department
1	GUJARAT MINERAL DEVELOPMENT CORPORATION (MATA NO MADH)	05/03/2020 to 03/04/2020	30 Days	03	Mining
2	GUJARAT MINERAL DEVELOPMENT CORPORATION (TADKESHWAR UNIT)	03/02/2020– 06/02/2020	4 days	08	Mining

Summary:

Sr. No	Name Of Department	No. Company	No. Student
1	Electrical Engineering Department	**0**	**0**
2	Civil Engineering Department	**0**	**0**
3	Mechanical Engineering Department	**0**	**0**
4	Mining Engineering Department	**2**	**11**
	Total :-	**2**	**11**

H. Industrial Visits

CIVIL ENGINEERING DEPARTMENT

Sr. No.	Name of Industry	Day	Semester
1	Motera Stadium, Ahmedabad and Mahatma Mandir Cable Stayed Bridge, Gandhinagar.	7/8/2019	
2	Sardar Sarovar Narmada Dam at Kevadia Colony	13/03/2020	4th & 6th
3	Banas Dairy, Palanpur	2/8/2019	8th

MECHANICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Industry	Day	Semester
1	AutoResQ is automobile service station	03-03-2020	8th

ELECTRICAL ENGINEERING DEPARTMENT

Sr. No.	Name of Industry	Day	Semester
1	PGCIL 765/400/220 kV SS, Mudetha	1	6th
2	PGCIL 765/400/220 kV SS, Mudetha	1	8th
3	Gujarat Solar Park Charanka	1	4th
4	State Load Dispatch Centre Gandhinagar	1	8th

MINING ENGINEERING DEPARTMENT

Sr. No.	Name of Industry	Day	Semester
1	Gujarat Mineral Development Corporation (Rajpardi Unit)	01	7TH
2	Gujarat Mineral Development Corporation (Tadkeshwar Unit)	01	7TH
3	D K Trivedi Marble Mines, Ambaji	01	4TH & 8TH
4	Fortune Indusry, Ambaji	01	4TH & 8TH

I. Faculty-Industry Interaction Details with Field

Sr. No	Department	Name of Faculty	Name of Industry	Purpose For Association
1	Civil	Prof. P. C. Vasani	Rushabh Consultants	Placement, Student Training
2		Dr. G. M. Savaliya	Sai Construction and Developers	Placement, Industrial Visit, Student Training
3		Prof. H. U. Patel	Ranjit Buildcon Limited	Placement, Student Project Work, Student Training, Industrial Visit
4		Prof. M. N. Prajapati	SAICAD CENTRE PATAN	Student Project Work, Training, Consultancy
5		Prof. N. R. Kotiya	SPAN Infrastructure material testing lab	Student Project Work, Student Training
6		Prof. R. K. Rathod	Bagwan Construction	Other, Working Site Visit
7		Prof. Y. J. Chauhan	L&T Construction, WDFC Project, Karjoda	Student Project Work
8		Prof. Y. J. Chauhan	CASAD Consultants Pvt. Ltd.	Student Project Work
9	Mechanical	Prof. V. D. Patel	COE, GEC, Patan	Student Training
10		Prof N A Patel	Vasant Fabricators Pvt. Ltd.	Training and Placement
11	Humanities & Science	Dr. C. G. Prajapti	Ihsedu Oil Industries	Industrial Visit
12	Electrical	Prof. A. M. Patel	Shree Ganesh Automation	Knoledge Upgradation and for the student benefits
13		H. V. Hirvaniya	PGCIL 765/400/220 kV SS, Mudetha	Student visit
14		H. V. Hirvaniya	PGCIL 765/400/220 kV SS, Mudetha	Student visit
15		H. V. Hirvaniya	Gujarat Solar Park Charanka	Student visit
16		H. V. Hirvaniya	State Load Dispatch Centre Gandhinagar	Student visit
17		H. V. Hirvaniya	Pooja Automobiles	Placement
18		H. V. Hirvaniya	Gajanand Motors	Placement
19		H. V. Hirvaniya	Riya Hyundai	Placement
20		Prof Jugnu Patel	NEXT-GEN POWER CONTROLS	Student Project Work & Student Training
21	Mining	Prof. J. V. Modi	GMDC	Industrial Training, Visit and Placement
22		Prof. J. V. Modi	Vedanta Resources	Industrial Training, Visit and Placement
23		Prof. J. V. Modi	D K Trivedi Marble mines, Ambaji	Industrial Training, Visit and Placement
24		Prof. Suraj Kumar	Fortune Industry	Industrial Training, Visit and Placement

EXTRA-CURRICULAR ACTIVITES

EXTRA-CURRICULAR ACTIVITES

A. Tree Plantation

Tree plantation programme arranged with Students of GEC, Palanpur and Staff members on 06-07-2019 at GEC, Palanpur .

B. Celebration of International day on against Drug Abuse

Drug abuse and illicit trafficking Programme arranged at our institute by NSS Volunteer on 26 June 2019. Invitee talks on the awareness on abuse of drugs in youth and more than 150 students get awareness of this seminar.

C. Seva Camp

Bhadarvi poonam seva camp arranged between Palanpur and Danta, Our Unit providing breakfast ganthiya and water for the Pilgrims of Ambaji. There is also Vyasanmukti awareness given for the Pilgrims and also took movement of swachhata abhiyan on this road on 9th and 10th september 2019.

Blood Donation Camp:

A blood donation camp was organized by the NSS unit in collaboration with GEC PALANPUR, in which 75 units of blood was donated by both students and the staff members. It is a way of GEC PALANPUR bringing a ray of hope as India faces an acute shortage of blood.


N.S.S. UNIT
GOVERNMENT ENGINEERING COLLEGE
PALANPUR
SEMINAR ON

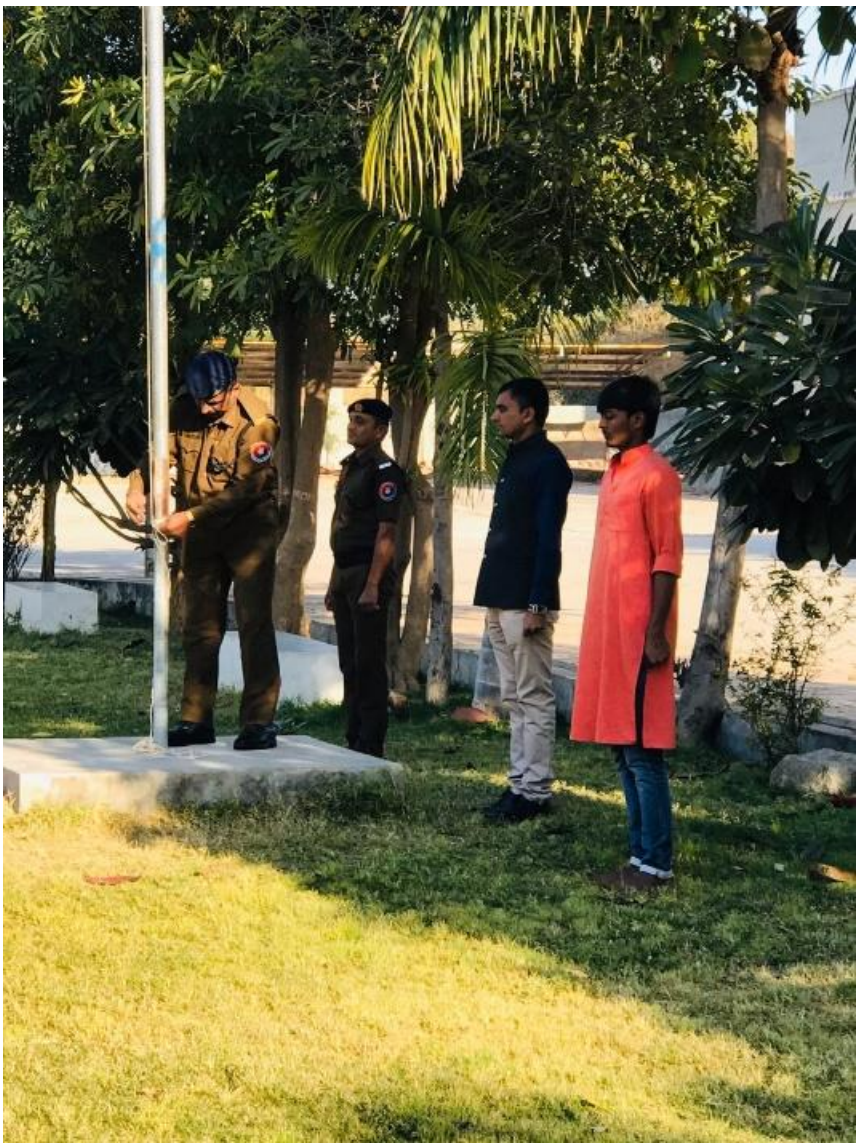
D. National Day Celebration

15TH AUGUST 2019

The Independence Day is a historic day for our nation, as on this day our nation became officially free after years of struggling against the British rule. This day is celebrated annually, taking the time to remember our national heroes who helped us gain independence. Government Engineering College, Palanpur celebrated 73rd Independence Day of the country on August 15, 2019 with great enthusiasm and patriotic fervour. In the morning, the students, staff and faculty members conveyed their greetings to each other. The programme started with singing of 'Vande Mataram' song, followed by the Flag Hosting by Dr. K. B. Judal, Principal of the institute. The spirit of freedom and nationalism was well exhibited by the student and faculties 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 a light on the special highlights of celebrations this year. The celebrations concluded with inspiring words from the Principal, followed by the National Anthem and sweet distribution.

26th JANUARY 2019

GECPL witnessed the celebration of the 71th Republic Day on the 26th January, 2020. Students, Staff and Faculty members filled with a feeling of patriotism and dedication gathered in central garden of the institute. The celebration started with the hoisting of the National Flag by the Principal, Dr. K. B. Judal. In his speech, the principal highlighted the importance of the Constitution and its unique features such as Sovereign, Socialist, Secular, Democratic and Republic enshrined in the preamble of the constitution. He also gave an insight on the various accomplishments achieved by college and motivated the students for bringing more laurels for the college through their accomplishments. The speech was followed by the National Anthem, various other representations of the classical art forms in the different dances and songs performed by the students, giving a glimpse of the diversity in unity of the nation and the Guard of Honour. Students were performed a marshal art for showing the importance of self defence in our life for self and others.The program ended with the message to create a great nation through collective efforts from all individual.




GOVERNMENT ENGINEERING COLLEGE,
PALANPUR
26TH OF JANUARY
EVENTS
71th Republic
Day of India
Celebrating the legacy,
Heralding the future.

E. NSS Activities

1. Yoga Day Celebration (21/06/2020)

Due to COVID 19 pendamic situation, International Yoga Day is celebrated by Students and Staff members and their family members at home.

2. CELEBRATION OF Kargil Vijay Din :

Celebration of Kargil Vijay divas held aour Institute on .14-07-2019.Students was aware about Krgil Vijay din with Documentary film and also arraaanged petriotic song competition on this day.

3. JAL SHAKTI ABHIYAN :

The NSS unit of GEC Palanpur has organised this programme to support this movement and educate its students about this problem on 22nd of July,2019 at Electrical seminar hall and all students were present to understand the need to save water & teach others about the need to conserve water & use water sustainably, so that our future generation have not to face water crisis.

4. A Seminar on Gandhi katha :

A seminar was held in GEC Palanpur by NSS Unit volunteers on “Gandhi Katha”. Gandhi Katha’s purpose is to presenting the incidents of Gandhiji’s life here, in the form of a ‘Gandhi Katha’ in order to introduce ourselves to the manifestation of different levels of greatness of his life. Each of these incidents represents and bring our various powerful aspects of his grand personality. Each incident is a camphor lamp. It would be worth the effort if such a lamp provides and creates a special vision of the magnificent and beautiful life image of Gandhiji, which he generated and carved out from each and every moment of his life, before it extinguishes.

5. NUTRITION AWARENESS PROGRAM:

A Nutrition Awareness Programme was organized by the NSS unit in collaboration with GEC PALANPUR On 25th September,2019 at Electrical Seminar Hall. It is a way of GEC PALANPUR of bringing a ray of hope as India faces an acute problem of malnutrition.

6. AYURVEDIC PEY DISTRIBUTION FOR FLU :

Ayurvedic/Amrut pay for preventation of Swine Flu was distributed by the NSS Unit and TIGER SENA at Government Engineering College Palanpur at 4th August,2019.
More than 300 students benifited through this program.

7. CELEBRATION OF CONSTITUTION DAY:

NSS unit GEC Palanpur CelebratesIndian Constitution day with different types of activities. Students and staff members of GEC Palanpur watched Live Telecast of PM and President speech in Parliament ,also took Oath of Preamble of Indian Constitution.

8. NSS camp organised at parpada village

NSS camp organised at parpada village from 17 February 2019 To 23 February 2019 there were 31 NSS volunteers participate in this special camp and effectively organise a different activity during this seven days in this camp there was organised plantation programme , blood group check-up for school children's , (superstition) andhashraddha Nivaran, Prabhat Feri swachata Abhiyan at the different places of papada village, Bakery items program for housewives of parpada village, Medical check-up camp, Awareness on renewable energy sources as well as veterinary science program, Beti Bachao beti padhao program, cultural night , Lok Dayro program and garba program Where are arranged in this special NSS camp.

Blood Group checkup camp

Inauguration program

Andhshradha Nivaran program

Prabhat pheri and morning sports activity

Aag Mata Temple

Cleaning of Roads and open ground of village and rally

Shitala mata temple and School campus

Bakery Program

NSS conducted the Bakery Program for Village women. Mr. Ishwar Bhai and his team teach them how to bake a cookie at home and how they will start their own gruh-udhyog.

Free full body checkup camp also organized for villagers by support of Banas Medical college, Palanpur. Many villagers took advantages of this body checkup camp. We also conducted program on Biogas, Renewable energy, organic farming, rog bhagavo and a session of veterinary doctor for farmers.

Rog Bhagavo Program

Full Body Checkup camp

Session on Renewable energy & organic farming

Rally on Beti bachao-beti padhao


બેટી વધાવો - બેટી પઢાવો
National Service Scheme
"7 Day N.S.S. Camp"
બેટી બચાવો
સમાજ બચાવો

Dayro


બેટી વધાવો - બેટી પઢાવો


"7 Day N.S.S. Camp"
GOVERNMENT ENGINEERING COLLEGE

Performances by volunteers

Thanking to guests and invitees

9. NSS Activities in Covid-19

PROGRAMME CO-ORDINATOR: Dr. K. P. Thakar

PROGRAMME OFFICER: Dr. C.G.Prajapati

At the Time of Pandemic situation of Corona over all India, In Gujarat Banaskantha District Different Academic NSS teams involved in this service in COVID -19. These all NSS Program officers as well as volunteers of the institutions served to different ways with new initiative ideas and provide services to the society and villagers to different areas. In this Duration different programs were arrange such as Mask Distribution, Homeopathic medicine distribution, Ayurvedic Amrut pey (UKALA), and helping to police force for follow the rules about COVID-19 by NSS Volunteers .





STUDENT ACTIVITIES

STUDENT ACTIVITIES

A. Teachers' Day Celebration

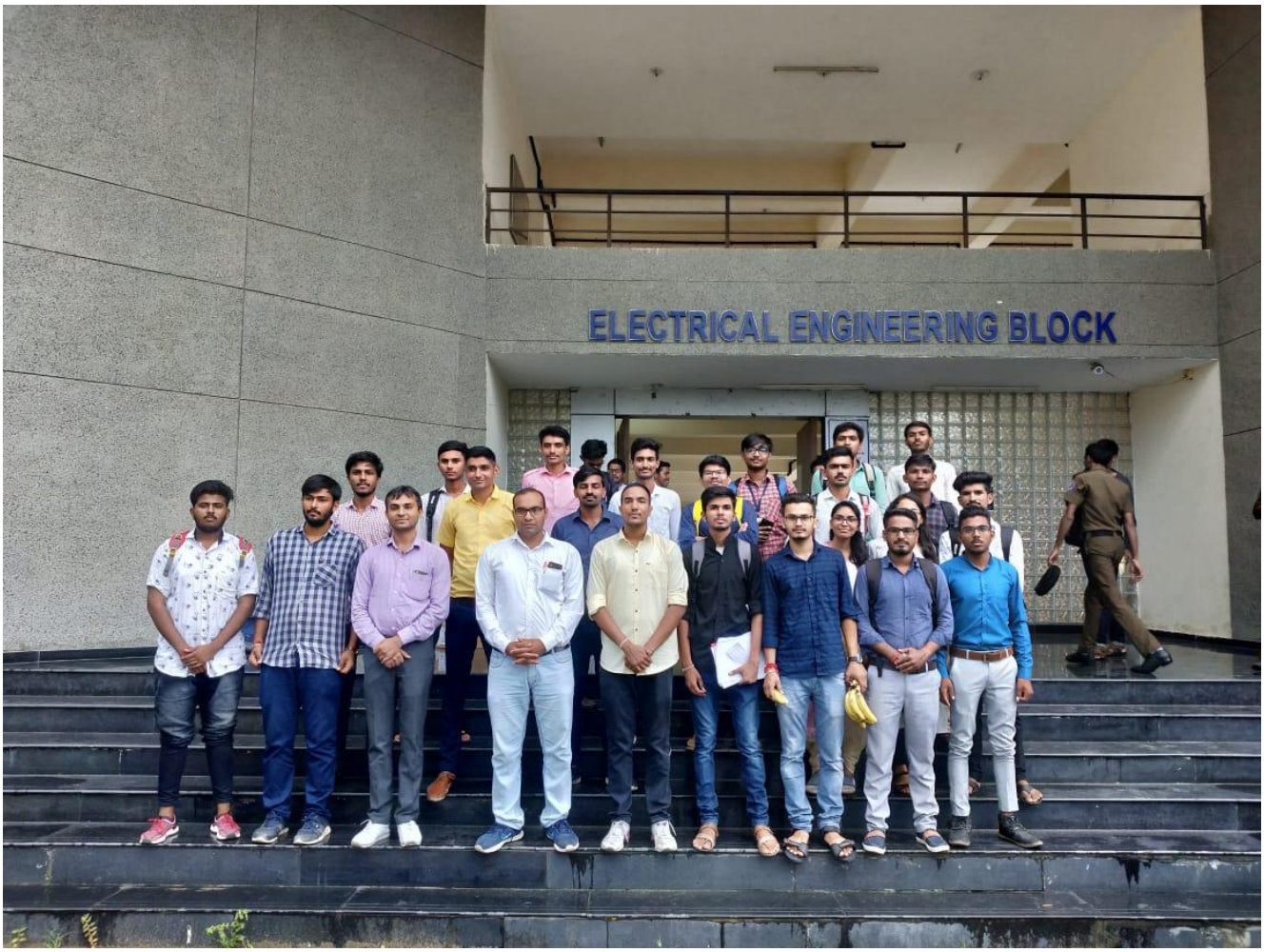
Teachers' Day is a special day for the appreciation of teachers, and may include celebrations to honor them for their special contributions in a particular field area, or the community in general.

Every year on 5th September Teachers' Day is celebrated at this institute. Students of 3rd and 4th year have participated. According to area of interest, Teaching slots are prepared and they deliver in classes. Most sessions planned are activity based. One common session for all the students is arranged for the interaction of Students and teachers. There were also arranged refreshment for all participated students as a teacher. Whole day planning is done by the students.


VORK
SHOP


VORK
SHOP


Teacher's day
Celebration


ELECTRICAL ENGINEERING BLOCK

B. Navratri Mahotsav

Government Engineering College, Palanpur celebrated its 8th Navratri Mahotsav on **October 04**, 2019 with great enthusiasm. This festival is celebrated every year to commemorate Maa Durga's win over the demon Mahishasura and represents the victory of peace and dharma over the ego and evil. The basic idea to organising such festival is to bring the students together and to inculcate a sense of culture and unity, which is the essence of Indian festival. The campus of the institute filled with the vibrant colours and rousing music when the students and faculty members gathered at the institute in traditional dressing to celebrate the Navratri festival. The celebration of Navratri started at 8:00 pm with pooja of Goddess Maa Durga by Dr. K. B. Judal, Principal of the institute, along with the students, staff and faculty members. All the students along with the faculty members outlined the basic plan for the celebration. The Students and staff members have enjoyed a traditional garba, raas and modern dance in a group.


LAN GAMES
Shot on realme 3 Pro


LAN GAMES
Shot on realme 3 Pro


Shot on realme 3 Pro


COLLEGE
Shot on realme 3 Pro

C. PRAXES

State Level Technical and Cultural Event

26thMarch and 27th March 2020

Faculty Coordinators:	Student Coordinators:
Prof. A. M. Patel	Kiran Desai
Prof. N. A. Patel	Arth Panchal
Prof. D.A.Patel	Dinesh Jaganiya
	Hasin Kadiwala

Posters of Event

TOTAL NUMBER OF STUDENTS PARTICIPATED: 1539

TOTAL NUMBER OF COLLEGES PARTICIPATED: 18

Event Wise Participation

Robotics	:	93 Students
Technical Workshop	:	510 Students
Project Exhibition	:	36 Students
Quiz	:	348 Students
One Minute Game	:	57 Students
Treasure Hunt	:	185 Students
Lan Game	;	249 Students
On The Spot	;	61 Students

Events List

Name of the Event	Name of the Faculty/staff Coordinator	Name of the Student Coordinators	Contact Number of the Student
Robotics	Prof. A. R. Chaudhary Prof. A. K. Patel	Haris Hashmi (6th Mech.)	8511616704
		Meet Kotak (6th Mech.)	9773058835
		Sagar Gidwani (6th Mech.)	7016966397
Project Exhibition	Prof. R. H. Chaudhary Smt. V. P. Patel	Sagar Rathod (6th Elect.)	9106201982
		Chandrabhusan (6th Mech.)	9512498387
		Vraj Thaker (6th Civil)	9909149053
Workshop	Prof. M. K. Patel Prof. H. V. Hirvaniya	Naresh Gajjar (4th Mech.)	9974006217
		Devansh Bhatt (8th Civil)	9825799888
		Gaurav Panchal (8th Elect.)	7043934525
Quiz-O-Tech	Prof. M. G. Prajapati Prof. Suraj Modi	Raghvendra Prajapati (6th Elect.)	9664958617
		Mahima khamar (6th Elect.)	-
		Divyesh Kakdiya (8th Civil)	9016071415
Minute to Win It	Prof. N. A. Mistry Prof. J. V. Modi	Riddhi Ninama (8th Civil)	-
		Yash Sathavara (6th Mech.)	7046150911
		Jinal Parmar (6th Civil)	-
LAN Game	Prof. J. H. Patel Prof. K. G. Prajapati	Manav Chaudhry (6th Min.)	7990619470
		Keshav Joshi (6th Elect.)	9879262419
		Ravi Verma (6th Elect.)	9913866373
Tresure Hunt	Prof. H. N. Chaudhary Prof. H. U. Patel	Meeta Chaudhry (8th Elect.)	-
		Kuldip Patel (8th Elect.)	9725333212
		Margesh Patel (6th Mech.)	9428847524
Poster Presentation	Prof. A. B. Patel Prof. Agnel Ro	Jinal Prajapati (8th Civil)	-
		Krupa Patel (8th Civil)	-
		Uday Tailor (6th Elect.)	8849490551
Drawing and Painting	Prof. S. G. Chauhan Smt. K. P. SHAH	Ravi Prajapati (8th Mech.)	9724389189
		Anjali Rami (8th Civil	-
		Arth Patel (6th Civil)	9106807939
CAD Defeater	Prof. N. T. Raval Shri. M. J. Trivedi	Vishal Raval (6th Civil)	9537041761
		Vikram Raygor (6th Civil)	9904270017
		Aayushi Amin (6th Elect.)	-

Central Committees

Name of the Committee	Name of the Faculty/staff Coordinator	Name of the Student Coordinators	Contact Number of the Student
Organizing Committee	Dr. A. M. Patel Prof. N. A. Patel Prof. D. A. Patel	Kiran Desai (8th Elect.)	8153003521
		Arth Panchal (8th Mech.)	7383516508
		Dinesh Jaganiya (8th Civil)	9687708784
		Hasin Kadiwala (6th Min.)	8487874703
Registration & Certification	Prof. R. K. Rathod Prof. N. R. Kotiya	Bhavin Mali (8th Mech.)	9510806421
		Purvang Sheth (8th Civil)	7567941980
		Priya Viramgami (4th Elect.)	-
Stage Decoration (Including Mandap & Lighting)	Prof. A. D. Patel Prof. P. N. Boka Prof. M. R. Suneja Smt. M. B. Chaudhari	Jigisha Patel (8th Civil)	-
		Risav Mishra (8th Mech.)	9173665820
		Urvashi Chaudhary (6th Civil)	-
Hosting	Prof. A. D. Patel Prof. F. J. Narsingani	Bhavesh Nayak (8th Civil)	7383695354
		Dipti Desai (6th Civil)	-
		Chandresh Chauhan (8th Civil)	7046363658
		Nehal Chaudhary (6th Civil)	-
Catering	Dr. K. M. Korot Shree G. K. Chaudhari	Jigar Prajapati (6th Elect.)	7046419210
		Himalaya Parwana (6th Civil)	7984783028
		Parth Patel (6th Civil)	9265093894
Discipline	Prof. V. D. Patel Prof. S. G. Chauhan Shree H. I. Chaudhary	Yash Sathavara (6th Mech.)	7046150911
		Chirag Suvera (8th Mech.)	7984475016
		Rutul Prajapati (8th Mech.)	9601609921
Sponsorship Committee	Dr. K. M. Korot Prof. D. A. Patel Shri. J. G. Prajapati	Nilesh prajapati (6th Civil)	9426051595
		Datt Patel (2nd Civil)	9099211394
		Hasin kadiwala (6th Min.)	8487874703
Press and Campaigning	Prof. G. M. Savaliya Prof. Y. G. Chauhan Prof. M. N. Prajapati	Rutvik Vaghela (6th Elect.)	8238270152
		Aakash Prajapati (6th Elect.)	9726023843
		Kuldip Patel (8th Elect.)	9725333212
		Ravi Prajapati (8th Civil)	9974769421
		Yogesh Maurya (6th Civil)	9426121567
		Manav Chaudhary (6th Min.)	7600624155
Account	Dr. C. G. Prajapati Shree K. R. Ranavasiya Shree J. G. Prajapati	Yagnik Trivedi (6th Civil)	7698689556
		Kiran Desai (8th Elect.)	8153003521
Purchase	Prof. B. R. Patel Prof. A. R. Chaudhari Shri G. M. Patel Kum. N. K. Prajapati	Arth Panchal (8th Mech.)	7383516508
		Dinesh Jaganiya (8th Civil)	9687708784
Security and Women Care	Prof. H. N. Chaudhari Prof. R. H. Chaudhary	Riddhi Ninama (8th Civil)	-
		Priya Viramgami (4th Elect.)	-

DUE TO COVID-19 PANDEMIC, THIS EVENT HAS BEEN CANCELLED

D. Sport Week

Sports committee of GEC Palanpur planned "Sports week 2k20" in the college for the students of GEC Palanpur. Participants from every semester and department were invited to take part voluntarily in various sport activities. Various sports such as cricket, volleyball, kho-kho, kabaddi, and many more were planned. There were also on the spot games planned by the committee. The core committee selected the class and game coordinators from each semester of all branches. The job of offline registration process for both team and individual were given the class coordinators. The registration of team games were offline while for individual games it was done online (Google forms). The job of the class coordinators were to register their class teams in various sports and report that to the core committee. After the registration process, the details of registered teams and players were given to the game coordinators of the respective game. They prepared the schedule and the fixtures for the event and reported that to the core committee.

OFFICE ORDER

No.: GECPL/262 Date: 18/02/2020

All the staff members of this institute are hereby informed that our institute is going to organize **SPORTS WEEK - 2020** from **16/03/2020** to **21/03/2020**.
Following faculty members are hereby assigned the duties to coordinate various sports games to be organized during the sports week as mentioned hereunder:

SR.NO.	GAME	NAME OF FACULTY MEMBER
1	CRICKET	1. Prof. N. A. Patel (Mech.) 2. Prof. A. R. Chaudhari (Mech.)
2	TABLE TENNIS	1. Prof. H. U. Patel (Civil) 2. Prof. N. R. Kotiya (Applied)
3	VOLLEYBALL	1. Prof. S. K. Modi (Min.) 2. Prof. R. K. Rathod (Civil)
4	CHESS	1. Prof. H. V. Hirvaniya (Elect.) 2. Prof. N. A. Mistry (Elect.)
5	CARROM	1. Prof. A. K. Patel (Mech) 2. Prof. P. N. Boka (Mech)
6	KHO-KHO	1. Prof. A. D. Patel (Mech.) 2. Dr. F. J. Narsingani (Gen.)
7	TUG OF WAR (RASSA KHECH)	1. Prof. V. D. Patel (Mech.) 2. Prof. J. H. Patel (Elect.)

8	KABADDI	1. Prof. H. N. Chaudhary (Elect.) 2. Prof. M. K. Patel (Elect.)
9	SHOTPUT	1. Prof. K. G. Prajapati (Elect.) 2. Prof. S. G. Chauhan (Civil)
10	LIMBOO-CHAMCHI	1. Prof. R. H. Chaudhari (Gen.) 2. Prof. J. V. Modi (Mining)
11	SACKRACE (KOTHLA DOD)	

- All the faculty coordinators are informed to contact student coordinators of their respective game for preparing action plan and taking necessary steps for smooth functioning of sports week. The list of student coordinator in enclosed herewith.
- Rules & regulations of games will be decided by respective faculty coordinator. Decision of the respective faculty coordinators will be final in case of any dispute.
- Registration & schedule of sports week will be prepared by central committee. Details of registration will be provided by 03:00PM on 13/03/2020.
- For any further requirements/help contact to Dr. K. M. Korot / Prof. Y. J. Chauhan, Sports Coordinators.

DUE TO COVID-19 PANDEMIC, THIS EVENT HAS BEEN CANCELLED

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 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	M. H. LUNAGARIA	M.E. (CASAD)	Structural Engineering	Assistant Professor	04-03-2020	-	Regular
3	Dr. G. M. SAVALIYA	M.Tech. (CASAD) PHD	Structural Engineering	Assistant Professor	16-01-2016	-	Regular
4	V. R. SHARMA	M.Tech. (STRUCTURES)	Structural Engineering	Assistant Professor	10-05-2011	-	Regular
5	H. U. PATEL	M.E. TRANSPORTATION ENGINEERING	Transportation Engineering	Assistant Professor	01-07-2017	-	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 (2019-20)	CAYm1 (2018-19)
1.	Professor	1	1
2.	Associate Professor	0	0
3.	Assistant Professor	9	9
4.	Number of Ph.D	1	1

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	2019- 2020
u1	60 + 09 = 69
u2	60 + 15 = 75
u3	60 + 17 = 77
Total No. of Students in the Department (S)	**180 + 41 = 221**
No. of Faculty in the Department (F)	**09**
Student Faculty Ration (SFR)	**SFR1=24.56**

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
2019-2020	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					
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

M. H. LUNAGARIA	Asst. Prof.	BE. Civil (LE College, Morbi); 1986	M.E. CASAD, L. D. College of Engg.. Ahmedabad - 2009	NIL	Structural Engineering	04/03/2020	NIL	NIL	NIL
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 Pursuing in Civil Engineering (MNIT, Jaipur),	Structural Engineering, Earthquake Engineering	10-05-2011	08	NIL	NIL

H. U. PATEL	Asst. Prof.	B.E. Civil (DDU Nadiad), 2011	M.E. Civil (GTU), 2013		Transportation Engineering	01/07/2017	NIL	NIL	NIL
S. G. CHAUHAN	Asst. Prof.	B.E. Civil (Gujarat University), 2010	M.Tech Urban Planning (SVNIT) - 2013		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

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1.	Prof. Y.J.Chauhan	Design of Reinforced Concrete Structures	NPTEL	29/07/2019	18/10/2019	-----
2.	Prof. Y.J.Chauhan	Reinforced Concrete Road Bridges	NPTEL	26/08/2019	20/09/2019	-----
3.	Prof. Y.J.Chauhan	Design of Steel Structures	NPTEL	29/07/2019	18/10/2019	-----
4.	Prof. Y.J.Chauhan	Structural Analysis-I	NPTEL	29/07/2019	18/10/2019	-----
5.	Prof. Y.J.Chauhan	Geosynthetics Testing Laboratory	NPTEL	29/07/2019	23/08/2019	-----
6.	Prof. Y.J.Chauhan	Geotechnical Engineering Laboratory	NPTEL	29/07/2019	23/08/2019	-----
7.	Prof. H.U.Patel	NBA Accreditation	DTE	22/07/2019	26/07/2019	-----
8.	Prof. H.U.Patel	Faculty Development for Teacher for Technical Courses	IITE Gandhinagar	29/02/2020	26/03/2020	-----
9.	Dr. G. M. Savaliya	Artificial lntelligence in Civil Engineering	NITTTR, Bhopal	16-09-2019	20-09-2019	
10.	Dr. G. M. Savaliya	Design of Masonry Structures	NPTEL MOOC IIT MADRAS	29-07-2019	16-11-2019	

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

Name of faculty	CAY (2019-20)				CAY (2018-19)				CAYm1 (2017-18)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
Prof. (Dr.) G. M. Savaliya	o	0	0	0	3	0	0	0	0	1	0	0
Prof. V. R. Sharma	1	0	5	0	0	0	2	0	0	0	0	0
Sum	1	0	5	0	3	1	2	0	0	1	0	0
AY 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
CAYm2 (2017-18)	-	-	-	-	0
CAYm1 (2018-19)	-	-	1	-	1
CAY (2019-20)	-	2	-	3	5
Total	-	2	1	5	6
Patents filed	-	-	-	-	-

E. 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.	25/9/2019	Mukesh Patel	ICE GATE Institute, Ahmedabad	Seminar on GATE PSU's PRIVATE and GOVT. JOBS awareness & Career options for Engineers	
2.	2/1/2020	Mr Kush Thaker	-	Expert lecture on Career Guidance	
3.	11/2/2020	Mr Sunny	Civil Career, Ahmedabad	Expert lecture on "OPPORTUNITY FOR CIVIL ENGINEERS AS A STRUCTURAL DESIGNER"	
4.	18/4/2020	Dr. Damyanti G Badagha	Assistant Professor, at S.N.P.I.T & Research Centre	Scope of Studies and Career in abroad	
5.	18/4/2020	Dr Mira Vasani	IITRAM	Communication Skill	
6.	19/4/2020	Pinalbhai Shah	Rusabh Consultant	Structural Designing	
7.	19/4/2020	Dipakbhai	Builder, Ahmedabad	Online Guidance on Oppurtunities in Software learning for Civil Egineering	
8.	21/4/2020	Mr. Gaurav	FSP trainer	Life skills in Corona Crisis	
9.	24/4/2020	Mr. Jay patel	Structural Consultant	Design and Construction of Transportation Structures - Industry Practices in Middle East Africa	
10.	27/4/2020	Mr. Viral Kapadiya	Professional Structural Engineer	Analysis and Design of transmission Line Tower	
11.	28/4/2020	Niketa Dedhia	Higher Educational	Abroad Studies Guidance	
12.	20/5/2020	Prof, R.J.Shah	Ultratech Cement limited	Cracks in Concrete Structures	
13.	25/5/2020 to 29/5/2020	Shri Mukesh Yogi and Shri Yogesh Zala	SAI CAD Centre.	Project Based Online Training on revit Architecture	
Internal Faculty					
-	-	-	-	-	-

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

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2019-2020	-	-	-	-
2018-2019	-	-	-	-
2017-2018	-	-	-	-

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2019 – 2020)	Year II (2018 – 2019)	Year III (2017 – 2018)	Year III (2016 – 2017)
QIP/Study leave	1	1	1	0
Seminars/workshops/Summer schools / winter schools	-	-	-	-
Training/Conferences	-	-	-	-

H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Transfer/New
1	Civil	Prof. M. H. Lunagaria	Assistant Professor	Transfer from GEC, Godhra

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.

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	Manishaben Suneja	M.E. Electrical Engineering	Electrical Power System	Assistant Professor	04-03-2013	-	Contract
2	Nehalkumar Mistri	M.E. Electrical Engineering	Power Electronics	Assistant Professor	04-02-2014	-	Contract
3	Harsh Chaudhari	M.E. Electrical Engineering	Electrical Power System	Assistant Professor	01-07-2015	-	Regular
4	Alpeshkumar Patel	M.E. Electrical Engineering	Power System & Renewable Energy	Assistant Professor	21-12-2013	-	Regular
5	Hiteshkumar Hirvaniya	M.Tech. Electrical Engineering	System & Control	Assistant Professor	23-08-2016	-	Regular
6	Manishkumar Prajapati	M.E. Electrical Engineering	Industrial Electronics	Assistant Professor	30-08-2016	-	Regular
7	Kirtikumar Prajapati	M.E. Electrical Engineering	Electrical Power System	Assistant Professor	16-08-2016	-	Regular
8	Jugnukumar Patel	M.E. Electrical Engineering	Electrical Power System	Assistant Professor	17-05-2018	-	Regular
9	Manishkumar K. Patel	M.Tech. Electrical Engineering	Electrical Power System	Assistant Professor	16-05-2018	-	Regular
10	Bhaveshkumar Patel	M.E. Electrical Engineering	Electrical Power System	Assistant Professor	23-09-2016	-	Regular

No of the Available Faculty:

S. No.	Designation/Numbers	Number of Faculty in the Department for UG	
		CAY (2019-20)	CAYm1 (2018-19)
1.	Professor	0	0
2.	Associate Professor	0	0
3.	Assistant Professor	10	10
4.	Number of Ph.D	0	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	**2019-2020**
u1	72
u2	72
u3	72
Total No. of Students in the Department (S)	**216**
No. of Faculty in the Department (F)	**09**
Student Faculty Ration (SFR)	**SFR1=24**

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	Available	Required	Available	Required	Available
2019-2020	1	0	2	0	8	10

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. B. R. Patel	Asst. Prof.	BE GEC Bhuj Gujarat University 1999	ME GEC Bhuj GTU 2017	-	Power System	06/04/2010	2	-	-
Prof. A. M. Patel	Asst. Prof.	BE. Electrical (Gujarat University); 2004	ME. Electrical (Gujarat University); 2010	Ph. D (IIT Roorkee), 2019	Power system	March 23, 2010	9	---	---
Prof. H. N. Chaudhari	Asst. Prof.	B.Tech. Electrical (Nirma University),2009	ME, Kadi Sarva Vishwavidhyalaya, 2018		Electrical Power System	19-04-11	1		

Name of the Faculty	Prof. M. K. Patel	Prof. M. G. Prajapati	Prof. K. G. Prajapati	Prof. H. V. Hirvaniya
Designation (administrative position)	Asst. Prof.	Asst. Prof.	Asst. Prof.	Asst. Prof.
Qualifications, University & year of Passing – UG	B.E., Electrical Engineering, Birla Vishwakarma Mahavidyalaya-2009	B.E, HNGU Patan	B.E, HNGU Patan	B.E (ELECTRICAL ENGINEERING), S.P.UNIVERSITY, 2008
Qualifications, University & year of Passing – PG	M.TECH, ELECTRICAL ENGINEERING I.I.T ROORKEE-2011	M.E, MSU Baroda	GTU, Ahmedabad	M.TECH(ELECTRICAL ENGINEERING), I.I.T.ROORKEE, 2011
Qualifications, University & year of Passing – Doctorate	NIL			-
Area of Specialization	System & Control	Industrial Electronics	Electrical Engineering	SYSTEM & CONTROL
Date of joining the Department/ prog, Load Sharing with more than one program	16-05-18	30-08-16	16-08-16	23-08-2016
No. of Research publications in Journal and conferences since joining the department and Total No. of Sub publications	NIL	0	NIL	0
# of current R&D and consultancy projects and the amount	NIL	0	NIL	0
Award of any	NIL	Nil	NIL	0

Name of the Faculty	Designation (administrative position)	Qualifications, University & year of Passing			Area of Specialization	Date of joining the Department/ prog, Load Sharing with more than one program	No. of Research publications in Journal and conferences since joining the department and Total No. of Sub publications	# of current R&D and consultancy projects and the amount	Award of any
		UG	PG	Doctorate					
Prof. J. H. Patel	Asst. Prof.	B.E., Electrical Engineering, Hemchandracharya North Gujarat University,Patan, 2009	M.E., Electrical Engineering, Gujarat Technological University,Ahmedabad, 2011	NIL	Power System Protection, Power System Operation and Control	17-05-18	NIL	NIL	NIL
Prof. M. R. Suneja	Asst. Prof.	B. E. Electrical Engineering & 2008	M. E. Electrical Engineering & 2012	N. A.	Electrical Power Syestem	04-03-13	———	———	———

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. N. A. Mistri	Asst. Prof.	B. E. Electrical Engineering (Saurastra University) -2008	M. E. Electrical Engineering Gujarat Technological University, Ahmedabad, 2012	N/A	Electrical Engineereing	04-02-18	N/A	N/A	N/A

C. Faculty/staff training/seminar/conferences

Name of Department: Electrical Engineering

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1	Prof. A. M. Patel	Recent Trends in Power System Operation and Control	VGEC, Chandkheda	25/11/2019	30/11/2019	-----
2	Prof. A. M. Patel	Non-	NPTEL	27/01/2020	17/04/2020	-----

		Conventional Energy Resources				
3	Prof. M.K.Patel	Induction Phase-1	NITTTR	19/08/2019	30/08/2019	
4	Prof. M.K.Patel	SSIP Fculty Development Programme	EDII	18/11/2019	22/11/2019	
5	K.G.Prajapati	Beyond The Classroom Towards Excellence	IITE Gandhinagar	14/11/2019	20/11/2019	
6	Prof H N Chaudhari	DC Microgrid	NPTEL Online Certification	July 2019	Sep 2019	
7	Prof H N Chaudhari	FDP – Beyond the Classroom Towards Excellence	IITE, Gandhinagar	17/01/2020	23/01/2020	
8	H. V. Hirvaniya	Student Innovation and Start-ups	SSIP Gujarat	29/07/2019	02/08/2019	
9	B R Patel	Innovative Exerinment in Electrical and Electronics Engineering	NITTTR Bhopal	19/08/2019	23/08/2019	
10	B R Patel	NBA Accreditation	IITRAM Ahmedabad	22/07/2019	26/07/2019	
11	B R Patel	Electrification of Modern Building Complexes	NITTTR Bhopal	18/11/2019	22/11/2019	

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

Name of faculty	CAYm2 (2019-20)				CAYm1 (2018-19)				CAY (2017-18)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
Prof. A. M. Patel	1	0	2	0		1	2		0	0	0	0
Sum	1	0	2	0	0	1	2	0	0	0	0	0
AY Sum	3				3				6			

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	2	0	1	3
CAYm1 (2017-18)	0	2	0	1	3
CAY (2016-17)	0	0	0	0	0
Total	0	4	0	2	6
Patents filed	0	0	0	0	0

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E. 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	23/10/2018	Dr. R. A. Patel	**academic**	Optimal Control and Stability Analysis	12
Internal Faculty					
-	-	-	-	-	-

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

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2019-2020				
2018-2019	1(Training)	0	0	1
2017-2018				
2016-2017				

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2017 – 2018)	Year II (2016 – 2017)	Year III (2015 – 2016)	Year III (2014 – 2015)
QIP/Study leave	1	1	1	0
Seminars/workshops/Summer schools / winter schools				
Training/Conferences				

H. Faculty transfers/New appointments

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

MECHANICAL ENGINEERING DEPARTMENT

VISION

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

MISSION

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

PROGRAM EDUCATIONAL OBJECTIVES

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

A. Faculty/staff department wise &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. N A Patel	M.Tech. Mechanical	CAD/CAM	Assistant Professor	09/05/2011	-	Regular
6	Prof. A D Patel	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
7	Prof. A R Chaudhari	ME-Mechanical	Machine Design	Assistant Professor	21/04/2011	-	Regular
8	Prof. P N Boka	M.Tech. Mechanical	Design Engineering	Assistant Professor	19/04/2011	-	Regular
9	Prof. A. K. Patel	M.Tech. Mechanical	Advanced Manufacturing Techniques	Assistant Professor	04/02/2012	-	Regular
10	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 (2019-20)	CAYm1 (2018-19)
1.	Professor	2	2
2.	Associate Professor	0	0
3.	Assistant Professor	8	9
4.	Number of Ph.D	2	2

Detail of Head of the Department for the program:

Name: Prof. J. A. Vadherel
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	2019- 2020
u1	67
u2	74
u3	75
Total No. of Students in the Department (S)	**216**
No. of Faculty in the Department (F)	**10**
Student Faculty Ration (SFR)	**SFR1=21.6**

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
2019-2020	1	2	2	0	7	7

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.EG U – 2000	M.E MSU – 2003	-	THER MAL	08/04/10	3		
N. A. PATEL	ASST. PROF.	B. E. NGU-2002	M.TEC H. GANP AT UNI.-2009	PUR	CAD/ CAM	09/05/11	2		
A. D. PATEL	ASST. PROF.	B. E. GU-2003	M.E-SPU-2009	-	MAC HINE DESI GN	21/4/11	1		
A. R. Chaudh ary	ASST. PROF.	B.E-SPU-2005	M.E-SPU-2008	PUR	MAC HINE DESI GN	21/4/11	-		
P. N. BOKA	ASST. PROF.	B.E. KSKV , KU-2008	M.Tech -IITB-2015	-	DESI GN ENGI NEER ING	25/09/08	1		
A.K. Patel	ASST. PROF.	B.E. HNG U 2002	M.Tech GANP AT UNI 2008	PUR	AMT	04/02/12	-		
N.T. Raval	ASST. PROF.	B.E. SPU 2010	M.E. GTU 2013	-	CAD/ CAM	23/10/13	-		

C. Faculty/staff training/seminar/conferences

Sr. No.	Faculty	Training Title	Organizer	From	To	Remarks
1	Dr.J.A.Vadher	"NBA Accreditation"	Other IITRAM, AHMEDABAD	22-07-2019	26-07-2019	
2	Prof.V.D.Patel	Fundamental Of Energy Management And Applications	SVNIT, SUTRAT	25-11-2019	29-11-2019	
3	Prof.N.A.Patel	Entrepreneurship Development	EDII, Gandhinagar	11-03-2019	15-03-2019	
4	Prof.N.A.Patel	Industrial Based NDT Training and Practices	GEC, GANDHINAGAR	08-07-2019	12-07-2019	
5	Prof.A.R.Chaudhari	Mathematical Modeling Of Manufacturing Processes	ONLINE IIT, GUWAHATI	JULY,2019	OCT,2019	
6	Prof.A.R.Chaudhari	Beyond The Classroom Towards Excellence	IITG GANDHINAGAR	14-11-2019	20-11-2019	
7	Prof.P.N.Boka	Computational Methods For Mechanical Engineers Using mATLAB	L. D. College of Engineering, Ahmedabad	11-03-2019	15-03-2019	
8	Prof.P.N.Boka	"NBA ACCREDITATION"	IITRAM, AHMEDABAD	22-07-2019	26-07-2019	
9	Prof.A.K.Patel	Advanced Welding Processes for Titanium and Aluminium Alloys	LDCE, Ahmedabad	07-10-2019	11-10-2019	
10	Prof.A.K.Patel	Processing and Characterization of Materials	GEC, Gandhinagar	04-11-2019	08-11-2019	

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

Name of faculty	CAYm2 (2017-18)				CAYm1 (2018-19)				CAY (2019-20)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
KBJ	1	0	0	0	1	0	0	0	1	0	2	0
JAV	15	0	0	0	1	0	0	0	2	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	1	0	0	0	0	0	0	0	0	0
ADP	0	0	0	0	0	0	0	0	0	0	0	0
ARC	0	0	0	0	0	0	0	0	0	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	16	0	1	0	2	0	0	0	3	0	3	0
AY Sum	17				2				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
CAY (2019-20)	0	3	0	3	6
CAYm1 (2018-19)	0	0	0	2	2
CAYm2 (2017-18)	0	1	0	16	17
Total	0	4	0	21	25
Patents filed	-	-	-	-	-

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	02/01/ 2020	Sai CAD, Patan	Industry	Fusion 360	60
2	20/02/ 2020 and 21/02/ 2020	Mr. Hareshbhai	Industry	Hand on practice of RAC equipment's and various Processes	58
3	4-10-2019	Shri R N Padya, Dynamic Consultancy, Ahmedabad	Industry	Energy Efficiency technologies, Climate Change and Renewable energy technology	64
4	24-12-2019	Prof. V B Patel Professor Mech. Engg. Dept. LECE, Morbi	Academic	Melt treatment of Non-ferrous materials	67
5	31-12-2019	Prof. A B Dhruv Professor Mech. Engg. Dept. VGEC, Chandkheda	Academic	Advances in sheet metal forming	62

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

Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2019-2020	4	1	-	5
2018-2019	2	-	-	2
2017-2018				

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.		
	Year I (2019 – 2020)	Year II (2018 – 2019)	Year III (2017 – 2018)
QIP/Study leave	0	0	0
Seminars/workshops/Summer schools / winter schools	0	0	0
Training/Conferences	17	7	10

H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
NIL				

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	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 (2019-20)	CAYm1 (2018-19)
1.	Professor	0	0
2.	Associate Professor	0	0
3.	Assistant Professor	2	0
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	**2019- 2020**
u1	13
u2	23
u3	33
Total No. of Students in the Department (S)	**69**
No. of Faculty in the Department (F)	**2**
Student Faculty Ration (SFR)	**SFR1=34.5**

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
2019-2020	0	0	0	0	2	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	NBA accreditation	IIT RAM, Ahmedabad	14/10/2019	18/10/2019
J.V.Modi	Capacity Building for Placement Officers	NITTTR, Bhopal	06/01/2020	10/01/2020
Suraj Kumar	Induction program – I	NITTTR, Bhopal (online)	08/06/2020	19/06/2020
Suraj Kumar	Examination Reforms	AICTE online course	29/04/2020	02/05/2020
J.V.Modi	Examination Reforms	AICTE online course	29/04/2020	02/05/2020

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

Name of faculty	CAYm2 (2019-20)				CAYm1 (2018-19)				CAY (2017-18)			
	IJ	J	IC	C	IJ	J	IC	C	IJ	J	IC	C
J.V.Modi	-	-	-	-	-	1	-	-	-	-	-	-
Suraj Kumar	-	-	-	-	-	-	-	-	1	-	-	-
Sum	-	-	-	-	-	1	-	-	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
2019-2020	--	--	--	--	--
2018-2019	--	--	01	--	01
2017-2018	--	--	--	01	01
total	--	--	01	01	02
Patents filed	--	--	--	--	--

E. 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					
Nil					
Internal Faculty					
Nil					

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

Seminars/Workshops/Conferences

Academic Year	Seminar	Workshops	Conferences	Total Nos. of Events Arranged
2019-2020	Nil	1	Nil	1
2018-2019	Nil	Nil	Nil	Nil
2017-2018	1	0	1	1

G. Faculty Quality Upgradation

Faculty Members deputed for specialized training / higher studies

Schemes	Number of faculty members deputed during last 3 years.			
	Year I (2019 – 2020)	Year II (2018 – 2019)	Year III (2017 – 2018)	Year IV (2016– 2017)
QIP/Study leave	0	0	0	0
Seminars/workshops/Summer schools / winter schools	0	0	0	0
Training/Conferences	2	0	1	1

H. Faculty transfers/New appointments

Sr. No.	Department	Name of Faculty	Designation	Remarks
Nil				

I. Institute Work Distribution

No.:GECPL/Admin/2019-20/ 980 **Date:28/06/2019**

Office Order :- **(With effect from: 01/07/2019)**

Following administrative/ managerial responsibilities are assigned to corresponding officers / staff in addition to their regular academic 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**	**Members**
1	Administrative officer	H.I.Chaudhary	.A.V.Vaghela, G.K.Chuadhari
2	Institute Overload committee and workload calculation	F.J.Narsingani	N.A.Modi
3	RTI/ Legal Matters	H.N.Chaudhari	N.A.Mistry
4	Internal Complaint Committee (ICC)/Women Development Cell	R.H.Chudhari	M.R.Suneja
5	IQAC/ CAS/API	P.C.Vasani Dr. J.A.Vadher	B.R.Patel C.G.Prajapati
6	Grievance Redressal Committee (Faculty & Staff)	P.C.Vasani	A.V.Vaghela
7	Faculty/ Staff Training	M.G.Prajapati	J.H.Patel
8	Accounts Officer	H.I.Chaudhary	K.R.Ranavasiya, J.G.Prajapati
2	**Head, Student Affairs:**	**Convener**	**Members**
1	Student Section	V.D.Patel	R.H.Chudhari, M.K.Patel, S.L.Modi
2	GTU Related Services & Examinations	V.D.Patel	H.U.Patel M.K.Patel, S.L.Modi
3	Student Scholarships & Related Matterrs	K.G.Prajapati	J.V.Modi
4	Gymkhana	Dr. A.M.Patel	Dr. K.M.Korot- Sports Council N.A.Patel:- S & T Council D.A.Patel:- Cul.Council F.J.Narsingani
5	Alumni Association	A.M.Patel Dr. K.M.Korot	H.U.Patel
6	NSS	Dr. C.G.Prajapati	D.A.Patel, N.A.Modi
7	NCC	Dr. K.M.Korot	Y.J.Chauhan
8	Anti-Ragging Committee	V.D.Patel	M.R.Suneja
9	Mentor International Student CSR	Y.J.Chauhan	
10	Admission & Help Center	K.G.Prajapati	S.L.Modi N.R.Kotiya
11	Grievance Redressal Committee (Student)	D.A.Patel	H.I.Chaudhary
12	Misson Antyodaya, 100 Activity Points/MGMS	S.G.Chuhan	M.R.Suneja
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, G.M.Patel T.J.Rathi
4	**Head, Academics:**	**Convener**	**Members**
1	First Year Coordination / IIPC	A.D.Patel C.G.Prajapati	K.G.Prajapati, S.G.Chauhan J.V.Modi
2	Institute Timetable	C.G.Prajapati	J.H.Patel A.R.Chaudhari, R.K.Rathod
3	Institute Information Compilation Committee including, CTE Follow-up, Minutes of Meeting	F.J.Narsingani	J.V.Modi, S.B.Chaudhary
4	AICTE/ GTU Affiliation, AISHE/NIRF	H.V.Hirvaniya	J.H.Patel , N.N.Chaudhari R.K.Rathod
5	NBA/Academic Inspection	Dr. J.A.Vadher	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 M.N.Prajapati
2	Housekeeping/Landscaping	S.G.Chauhan	N.N.Chaudhari A.V.Vaghela
3	Electrical Maintenance and Liaison with R&B Electrical	B.R.Patel	N.A.Mistry
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	N.A.Mistry
7	KYC Portal, Website management and updating	A.K.Patel	M.J.Trivedi
8	MIS	A.K.Patel	M.J.Trivedi
6	**Head, Industry & Outreach:**	**Convener**	**Members**
1	Training and Placement Cell Industry-Institute Interaction Cell/MOU/ CII	P.C.Vasani N.A.Patel	Dr. G.M.Savaliya P.N.Boka H.V.Hirvaniya, S.L.Modi
2	Institute Publishing Committee, Institute Brochure, E-Newsletter, Inst & Dept Brochure, Media Coordinator	A.B.Patel Dr. K.M.Korot	A.D.Patel Y.J.Chauhan S.L.Modi N.T.Raval
3	Professional bodies and Student Chapters	Y.J.Chauhan	
4	RUSA and Other GOI Scheme	Dr. J.A.Vadher	H.U.Patel J.H.Patel
5	GKS/Language Lab/Skill Development/Finishing School	Dr. G.M.Savaliya	M.G.Prajapati S.R.Modi
6	Entrepreneurship Development Cell/Design Lab/Center of Excellence	P.N.Boka A.D.Patel	M.K.Patel
7	**Head, Amenities:**	**Convener**	**Members**
1	Library	M.G.Prajapati	M.N.Prajapati
2	Hostel Rector / Medical Facility	P.C.Vasani	M.B.Bhumbhaliya
3	Hostel Wardem (Boys)	H.N.Chaudhari	
4	Canteen, Student Store and other srudent Amenitis	H.U.Patel	S.R.Modi

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

*Warden Charge is subject to change based on office order from the head office.

Responsibilities of concerned Convener/Member:

1. Prepare an annual action plan with clear objective 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. Motivate the team to accomplish the planned work as per annual action plan.
5. Proactive initiative for reformation in allotted portfolio and quality recordkeeping for exhibits.
6. Coordination with committee/members/representatives at regular interval to identify progress/lagging /follow-up.
7. Prepare annual summary report mentioning brief statistics of fulfillment of objectives/goals for allotted responsibilities. Also maintains portfolio specific records/proofs for the purpose of NBA/AICTE.

No.:GECPL/Admin/2019-20/ 980 **Date: 28/06/ 2019**

Office Order (Revised): - **(Revision Date: 28/01/2020)**

Following administrative/ managerial responsibilities are assigned to corresponding officers / staff in addition to their regular academic 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**	**Members**
1	Administrative officer	H.I.Chaudhary	A.V.Vaghela,G.K.Chuadhary
2	Institute Overload committee and workload calculation	F.J.Narsingani	N.T.Raval
3	RTI/ Legal Matters	H.N.Chaudhari	N.A.Mistry
4	Internal Complaint Committee (ICC)/Women Development Cell	R.H.Chudhary	M.R.Suneja
5	IQAC/ CAS/API	P.C.Vasani Dr.J.A.Vadher	H.B.Patel, B.R.Patel Dr. C.G.Prajapati
6	Grievance Redressal Committee (Faculty & Staff)	P.C.Vasani	A.V.Vaghela
7	Faculty/ Staff Training	M.G.Prajapati	J.H.Patel
8	Accounts Officer	H.I.Chaudhary	K.R.Ranavasiya, J.G.Prajapati
2	**Head, Student Affairs:**	**Convener**	**Members**
1	Student Section	V.D.Patel	R.H.Chudhary, M.K.Patel, S.L.Modi
2	GTU Related Services & Examinations	V.D.Patel	H.U.Patel M.K.Patel, S.L.Modi
3	Student Scholarships & Related Matters	K.G.Prajapati	J.V.Modi
4	Gymkhana	Dr. A.M.Patel	Dr. K.M.Korot- Sports Council Y.J.Chauhan N.A.Patel:- S & T Council D.A.Patel:- Cul.Council F.J.Narsingani
5	Alumni Association	A.M.Patel	H.U.Patel
6	NSS	Dr. C.G.Prajapati	D.A.Patel
7	NCC	Dr. K.M.Korot	Y.J.Chauhan
8	Anti-Regging Committee	V.D.Patel	M.R.Suneja
9	Student Welfare & Mentor International Student CSR	A.D.Patel	Y.J.Chauhan
10	Admission & Help Center	K.G.Prajapati	S.L.Modi N.R.Kotiya
11	Grievance Redressal Committee (Student)	D.A.Patel	H.I.Chaudhary
12	Misson Antyodaya, 100 Activity Points/MGMS	S.G.Chauhan	M.R.Suneja
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, G.M.Patel

4	**Head, Academics:**	**Convener**	**Members**
1	First Year Coodination / IIPC	A.D.Patel C.G.Prajapati	K.G.Prajapati,S.G.Chauhan J.V.Modi
2	Institute Timetable	C.G.Prajapati	J.H.Patel A.R.Chaudhari, R.K.Rathod
3	Event Report Preparation, CTE Meeting/ VC Info. Follow-up/ Compilation, Minutes of Meeting	A.K.Patel	J.V.Modi, A.I.Roy
4	AICTE/ GTU Affiliation, AISHE/NIRF	H.V.Hirvaniya	J.H.Patel , R.K.Rathod
5	NBA/Academic Inspection	Dr. J.A.Vadher	A.M.Patel, A.D.Patel, N.R.Kotiya
6	SSIP Cell, GTU IDP/UDP, CIC3, Virtual Lab	N.A.Patel H.V.Hirvaniya	M.K.Patel, R.K.Rathod
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5	Computer/ Printer/Projector Network, Internet, CCTV, VC management and Maintenance issues	P.N.Boka	N.T.Raval M.J.Trivedi
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1	Training and Placement Cell Industry-Institute Interaction Cell MOU/ CII	P.C.Vasani N.A.Patel	Dr. G.M.Savaliya P.N.Boka H.V.Hirvaniya S.L.Modi
2	Institute Publishing Committee, Institute Brochure, E-Newsletter, Inst & Dept Brochure, Media Coordinator	A.B.Patel Dr. K.M.Korot	M.G.Prajapati Y.J.Chauhan J.V.Modi N.T.Raval
3	Professional bodies and Student Chapters	H.B.Patel	Y.J.Chauhan
4	RUSA and Other GOI Scheme	Dr. J.A.Vadher	H.U.Patel J.H.Patel
5	GKS/Language Lab/Skill Development/Finishing School	Dr. G.M.Savaliya	M.G.Prajapati A.I.Roy
6	Design Lab	P.N.Boka	M.K.Patel A.D.Patel
7	Entrepreneurship Development Cell	P.N.Boka	A.R.Chaudhari
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)	H.N.Chaudhari Dr. K.M.Korot	M.J.Trivedi G.M.Patel
4	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 objective 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.
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5. Motivate the team to accomplish the planned work as per annual action plan.
6. Coordination with committee/members/representatives at regular interval to identify progress/lagging /follow-up.
7. Prepare annual summary report mentioning brief statistics of fulfillment of objectives/goals for allotted responsibilities. Also maintains portfolio specific records/proofs for the purpose of NBA/AICTE.

J. New Student Related Policies Framed

- Formation of Alumni Association will be finalized by the end of October-2017. Responsibility will be given to concern committee.
- It was decided to start NCC in the institute.
- Student welfare related:

  In Order to establish holistic interaction with students, their welfare and inspiration of talented students, it was decided to constitute SWC. The SWC will frame guidelines for the welfare of students.

- Sanction of TA/DA to the students for participating in various events:

It was decided to pay TA-DA to the students attending various Technical/Sports/Cultural/Social programmes / competitions outside the college with prior approval through concern officer-incharge. TA will be limited to Sleeper class railway fare/Non-AC bus fare. If group of students/team travelled by hired car/Jeep between places they shall be entitled to draw TA limited to minimum of either actual fare paid for hiring car/jeep or bus/railway sleeper class fare of group of students by shortest route. DA limited to Rs.100/- per student will be paid. The expenditure will be paid from Gymkhana fund. The event registration fees will be reimbursed when, produce a registration fees token.

K. Institutional Committees

NO:GECPL/69 Date:22/1/2020

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 till further order.

Sr. No.	Name of Committee Member	Designation	Position in Committee
1.	Dr. K. B. Judal	Principal	Chairperson
2.	Dr. V.D.Patel	Asstt. Professor	Convener
3.	Prof. M. R. Suneja	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.	Kiran Roz	Student-Electrical	Student Member
10.	Yagnik Trivedi	Student-Civil	Student Member
11.	Nilesh D.Patel	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/72 **Date:22/1/2020**

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 commtttiee will have a tren of two years.

Sr. No.	Name of Member	Designation	Contact Number
Presiding Officer:			
1	Prof. R. H. Chaudhary	Assistant Professor	9925029215
Faculty Members:			
2	Prof. P.N.Boka	Assistant Professor	9724019504
3	Prof. M. R. Suneja	Assistant Professor	8153878594
Non-Teaching Members:			
4	Mrs. K.R.Ranavasiya	Head Clerk	7600800386
5	Mr. G. M. Patel	Store Keeper	9429307852
Student Members:			
6	Prajapati Riya	BE 4th Electrical Engineering	
7	Chaudhari Brijal	BE 2th Civil Engineering	
8	Mahima Khamar	BE 6th Electrical Engineering	
Member from NGO:			
9	Smt. Laxmiben Karen	Member of District Panchayat	

NO:GECPL/71 **Date:22/1/2020**

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-Maths	9925029215
Faculty Members:			
2	Prof. F.J.Narsigani	Assistant Professor	
3	Prof.S.G.Chauhan	Assistant Professor	9979622187
4	Prof. M. R. Suneja	Assistant Professor-Electrical	8153878594
5	Mrs. N. K. Prajapati	Lab. Assistant- Mechanical	9099760971
Student Members:			
6	Desai Dipti	Student (Civil, 6th Sem)	
7	Amin Aayusi	Student (Electrical, 6th Sem)	
8	Chaudhari Rita B	Student (Civil, 4th Sem)	
9	Jua Rinku	Student (Civil, 2th Sem)	

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/75 **Date:22/1/2020**

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:			

Sr. No.	Name of Member	Designation	Contact Number
2	Prof. S. G. Chauhan	Assistant Professor-Civil	9979622187
3	Prof. M. R. Suneja	Assistant Professor-Electrical	8153878594
4	Prof. N.A.Patel	Assistant Professor-Mechanical	
5	Mrs. N.K.Prajapati	L.A	
Student Members:			
6	Viramgami Priya	Student (Electrical, 4th Sem)	
7	Chaudhari Nehal	Student (Civil, 6th Sem)	
8	Panchal Vandana	Student (Mining, 6th Sem)	
9	Dhumar Binal	Student (Civil, 4th Sem)	

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 programmes 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 Woman Development Cell

Arrange Programme on "**Legal Awareness of Children Rights''** on 11/7/2019 ,participants are 33.

Arrange one day programme of "Cooking competition'' on 17/2/2020, total 25 girls are participated.

Celebrate International Women's day on 6/3/2020,total 29 girls are participated.


" Empowered Woman, Empowered Family "
GOVERNMENT ENGINEERING COLLEGE
PALANPUR
WOMEN DEVELOPMENT CELL
SPECIAL LECTURE ON
DATE :

LIBRARY

LIBRARY

Government Engineering College, Palanpur 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 13440. 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 are and three major daily news paper 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 chair) with silent environment providing a perfect place for students to study and enhance their knowledge.

Library Utilization:

From July -2019 to June 2020 total books issued to the faculty is 214 and to the students are 2263.

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	70
LAPTOP	18
SCANNER	6
CAMERA	36
LCD PROJECTOR	12
UPS SERVER	15
MATLAB SOFTWARE	

Availability of points of connection for Internet, WiFi, Camera

LAN POINTS	490
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

Venue: Electrical Engineering Dept.
Date :29/01/2020
Time: 3:00 pm


LABORATORY

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	41313000	41285650	
	OBJECT CLASS-2		**0**	
1	Domestic Travel Expenses	3459000	69891	
2	Office Expense		3178702	
3	Rent Rates and Taxes		**0**	
4	Publications/Library		35986	
5	Banking Cash Transaction Tax		**0**	
	TOTAL	3459000	3284579	
	OBJECT CLASS-3		**0**	
1	Supplies and Materials	8933000		
2	Advertising & Publicity		**0**	
3	Professional Services		269820	
4	Out sourcing(Man Power)		8172127	
	TOTAL	8933000	8441947	
	OBJECT CLASS-6			
1	Motor Vehicales	944000		
2	Machinery & Equipment		915705	
	TOTAL	944000	915705	
1	Gymkhana	158050	98498	Up to March-**2020**
2	Social gathering	77600	43910	
3	Student welfare	77600	18000	
4	GTU internal	2205329	2217809	
	GRAND TOTAL	**57,167,579**	**56,306,098**	

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

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(1) FORMATION OF "ALUMNI ASSOCIATION"

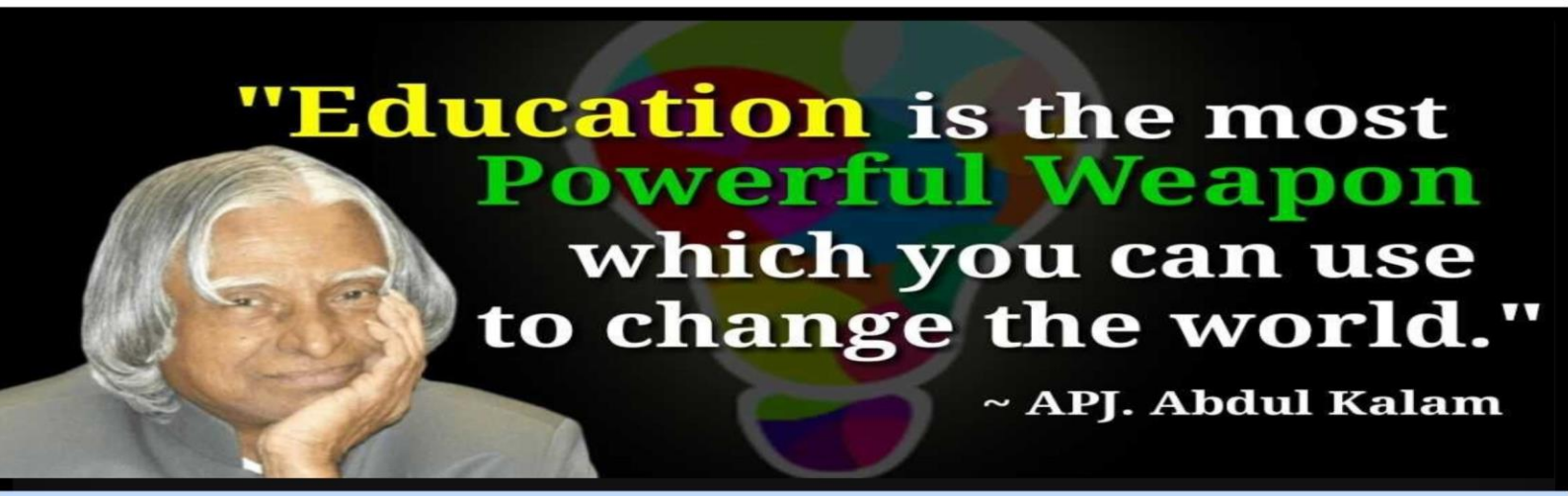
The "Alumni Association" of the institute has been formulated initially with seven members, and it has been registered at the Office of the Charity Commissioner, Banaskantha District on February 19, 2020.

(2) "ALUMNI ASSOCIATION" OBJECTIVES

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

(3) ALUMNI ASSOCIATION" FUNCTION

As on today, yet, no "Alumni meet" or "Alumni function" has been organized because our alumni association is registered in the month of February, 2020. And, immediately after that lock down was implemented due to COVID Pandemic.



VISION

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

GOVERNMENT ENGINEERING COLLEGE PALANPUR
સરકારી ઇજનેરી કૉલેજ પાલનપુર
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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