



WELCOME TO

GOVERNMENT POLYTECHNIC, VALSAD

➤ VISION

“To be one of the leading institutes in developing dynamic technical professionals according to evolving industrial trends in national interest”

➤ MISSION

1. To become a model institute for Outcome Based Education by adopting best practices and improving infrastructure
2. To develop critical thinking, problem solving skills and interpersonal skills in students to overcome professional challenges by cultivating a proactive learning environment
3. To impart affirmative traits and productive mindset to the students by exemplary mentoring
4. To collaborate with industries to achieve employer focused learning by regular industrial visits, vocational training, expert lectures and providing consultancy services
5. To develop responsible citizenship in students by promoting activities

➤ Remarkable Features of the Institute

Government Polytechnic Valsad is established in year 1965. The institute aims to provide quality education for professional courses that makes students knowledgeable with the subject domain and worthy citizen as well. This institute is recognized by All India Council of Technical Education (AICTE), New Delhi. The college is administered by Directorate of Technical Education, Government of Gujarat and is affiliated with Gujarat Technological University.

- 1) Excellent location situated in the Valsad, a complete natural beauty spot.
- 2) Newly constructed Boy's hostel with all necessary facilities.
- 3) Girl's hostel in the college campus with all necessary facilities.
- 4) Woman cell is active for safe working environment for girls in the institute. It organizes various types of seminars, workshops for creating general awareness of women development and for self-defense.
- 5) Grievance cell is also active in the institute which deals with all types of grievances of students in order to resolve grievances of students.
- 6) Anti-ragging cell is actively monitoring the students. An anti-Ragging Committee constituted by this institute is empowered to take an immediate action against any untoward incident and counsel the fresher.
- 7) Excellent result with CGPA above 9 in GTU exams.
- 8) Regular industrial/ field visits to enhance the knowledge gained during theory sessions.
- 9) Eminent experts regularly invited from field/society to boost up technical/ social knowledge.
- 10) Regular arrangement of co-curricular activities and extracurricular activities, sports facility for indoor and outdoor games like volley ball, table tennis, badminton etc.
- 11) Activities focusing on development of students as a respectable and responsible citizen including care and respect foremother nature, mother India, Women, Parents, Tree plantation, saving electricity, cleaning etc. to cultivate a SEED called CHILD into a TREE called HUMAN.
- 12) Availability of soaps, liquid hand wash dispenser, mirror in all bathrooms.
- 13) Wide and vivid green landscape /gardens for refreshing and peaceful ambience.
- 14) Basic electrical wiring, basic civil and mechanical/fabrication works are done by staff and students with a view to give practical exposure to students.
- 15) Full-fledged labs equipped with almost all major equipments.
- 16) Entire campus & classrooms secured with 24X7 CCTV cameras and security guards.
- 17) Facility of dedicated Internet lease line as per AICTE norms.
- 18) Regular communication with parents to enhance the students' focus on study.
- 19) Rich library with book bank facility.
- 20) Training & Placement cell for pass outs and final year students.
- 21) Admission help center with exemplary performance and experienced staff.

➤ Message From Principal

Government Polytechnic, Valsad was established in the year 1965 by the resolution of Government of Gujarat. Right from the day of its inception, the team at the institute has been doing tireless efforts to impart quality technical education to aspiring technicians with a noble goal to provide qualified technical manpower in the industries responding to the clarion call of the Prime Minister to make Aatmnirbhar Bharat.



One of the most remarkable strengths of the institute is its Teamwork. The entire staff of the institute is attached to the institute, to the students and to one another just like family members practicing exemplary coordination and loving support for one another, working for the common goal of the institute – be it a sports event, any institute program, a thalassemia camp, vaccination camp or whatever. Through this quality of synergy, the institute is in a position to face the upcoming challenges of the ever changing job scenario in different industries.

In the new environment of liberalization, the field of technical education have been facing the challenges not only from inside but also from the outside world. It has changed the role of teachers, administrators, and planners involved in the field of technical education. The barrier between a classroom and an industry, anywhere in the world, is now very transparent with respect to technology. The large number of national & international technical institutes, who are wrestling to employ their students, are in search of innovative teaching methods. Our institute, which is one of the oldest in South Gujarat region is committed to provide quality education. I feel grateful to all stakeholders of the institute for showing their continuous confidence in us and for extending their kind support enabling us to realize our vision and mission to achieve the mark of excellence in academics and administration as well. I am also thankful to C.T.E. Gandhinagar, former principals. Heads and all the faculties for their unforgettable and uncountable contributions in laying strong foundation for bringing this institute at its present state.



➤ About Us

- Address : Kosamba road, Valsad
- Phone Number : 02632 - 253015
- Website : <http://gpvalsad.ac.in>
<http://www.gpvs.cteguj.in>
- Email Id : principal@gpvalsad.ac.in
gpvalsad2018@gmail.com
- Year Of Establishment : 1965
- Affiliation : Gujarat Technological University, Ahmedabad
- GTU College Code : 629
- Approved By : A.I.C.T.E., Delhi
- Head Office : Directorate of Technical Education, Gandhinagar, Gujarat
- Duration : 06 Semesters
- Eligibility For Admission : 10+ (with Maths, Science, English)
- Method Of Admission : As per the guidelines of Admission Committee for Professional Diploma Courses (ACPDG)

➤ **PROGRAMMES RUN AT INSTITUTE**

Regular Diploma Programmes

Sr. No	Name Of The Programme	No. Of Seats	Year Of Establishment	Duration
1.	Civil Engineering	180	1965	06 Semester
2.	Mechanical Engineering	180	1965	06 Semester
3.	Electrical Engineering	180	1965	06 Semester
4.	Chemical Engineering	180	1970	06 Semester
5.	Plastic Engineering	60	1990	08 Semester
6.	Mechanical CAD/CAM	60	2022	06 Semester
7.	Information Technology	60	2022	06 Semester

➤ **SANCTIONED INTAKE 900**

Admitted Students' Statistics at Institute

Program	Current Sanctioned Intake	Admitted Students			
		2020-21	2019-20	2018-19	2017-18
Chemical Engineering	180	198	195	168	177
Civil Engineering	180	167	236	179	187
Electrical Engineering	180	188	215	179	180
Mechanical Engineering	240	168	332	276	296
Plastic Engineering	60	18	73	94	94
Total Students	840	719	1051	896	934

Government Polytechnic, Valsad



➤ **DEPARTMENTS**

- Chemical Engineering Department
- Civil Engineering Department
- Electrical Engineering Department
- Mechanical Engineering Department
- Plastic Engineering Department

➤ SECTIONS

- Community Polytechnic Wing
- Learning Resources User's Centre
- Training and Placement Unit
- Computer Centre
- Library
- Office & Central Store
- Person with Disabilities
- ISTE Chapters
- Alumni Association

➤ Institute's Buildings:

All departments are connected with CC roads. The entire campus has been beautified with well-maintained lawns and gardens. Utmost care is being taken to keep the campus neat, clean and beautiful.

Glimpses of Various Buildings



Admin Building



Academic Building



Plastic Engg. Dept.



Workshop



LRUC Building



Laboratory Building

Government Polytechnic, Valsad

CHEMICAL ENGINEERING DEPARTMENT

Vision

- To be one of the leading department in developing dynamic diploma chemical engineering professionals according to evolving industrial trends in national interest.

Mission

- To become a model department for Outcome Based Education by adopting best practices and improving infrastructure.
- To develop critical thinking, problem solving skills and interpersonal skills in students to overcome professional challenges by cultivating a proactive learning environment.
- To impart affirmative traits and productive mindset to the students by exemplary mentoring.
- To collaborate with industries to achieve employer focused learning by regular industrial visits, vocational training and expert lectures.
- To develop responsible citizenship in students by promoting awareness of safety, environmental and social issues.

Program Educational Objectives (PEOs)

- To develop knowledge for overcoming challenges in the area of chemical engineering.
- To develop ability to successfully execute skills in operation of chemical plants with help of industry institute interaction.
- To develop professionals who will thrive to pursue skills of problem solving, communication, team work, life-long learning, leadership, professional ethics and values.

Program Specific Outcomes (PSOs)

- An ability to practice safety in chemical plants.
- An ability to apply chemical engineering principles for protection of environment.

➤ **Faculties**



Dr. Amit C. Dhaneshwar
Head of Department(Regular)
Ph.D. in Chemical Engg.
Joining Date:20-09-2022



Mrs.Kajal Sareriya
Lecturer(Regular)
M. E. Chemical Engg.
Joining Date:19-02-2022



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➤ Labs in Chemical Engineering Department



OPERATION LAB.

Operation Laboratory is Equipped with Experiments like Jaw Crusher, Roll Crusher, Ball Mill, Cyclone Separator, Sieve Shaker, Plate and Frame Filter Press, Reynolds Number, Hydraulic Bench, Bernoulli's Theorem, Emissivity, Metal Rod, Composite Wall, Insulating Material, Shell and Tube Heat Exchanger, Free Convection, Force Convection, Stephen Boltzmann, Vapor Liquid Equilibrium, Absorption Packed Tower, Electric Oven, Swenson Walker Crystallizer, Solid-Liquid Extraction, Packed Bed Distillation and Distillation with DCS used to teach students the practical applications of courses like Mechanical Operation, Fluid Flow Operation, Process Heat Transfer and Mass Transfer Operation.



PROCESS LAB.

Process Laboratories Equipped with Experiments like Level Controller, Temperature Controller, DCS and SCADA system, pH meter, Hygrometer, Hydrometer, Pensky Martine for Flash and Fire Point, Smoke Point, penetrometer, Softening, Condration Carbon Residue and Glass wares with required utilities used to teach students the practical applications of courses like Chemical Process Technology, Pollution Control & Effluent Treatment, Safety & Hazard Management, Petroleum Refining & Petrochemical Technology, Fertilizer Technology and Pulp & Paper Technology.

CIVIL ENGINEERING DEPARTMENT

Civil Engineering is considered to be the most versatile branch among all the engineering branches. We are dedicated to providing innovative and high-quality opportunities for our students acquire the fundamental knowledge, skills and attitudes necessary for entry and success in the professional practice It is the branch with a lot of diversity from Surveying, Transportation, Construction Project management, Hydraulics, Structural Engineering, Soil Engineering etc. Government Polytechnic Valsad was established in 1965 and the Civil Engineering Department is part of the institute since its inception. The department is marching towards a full-fledged department with specializations in all the major areas of Civil Engineering. Faculty members of the department are highly qualified and received training from reputed institutions in India. The department offers courses at Diploma Engineering level.

Program Educational Objectives (PEOs)

- To be able to find immediate employment in reputed academic, public sector and private organization, with responsibility and social conscience.
- To pursue higher education in Civil Engineering and related disciplines.
- To develop student's potential to its fullest extent so they emerge as dynamic professionals.
- To evolve into responsible individuals, competent enough to use their technical knowledge in meeting the challenges in the field of Civil Engineering.

Program Specific Outcomes (PSOs)

- Perform optimal civil engineering investigation, survey, planning and designing activities of desired quality with cost effectiveness.
- Execute civil engineering construction and maintenance using relevant modern materials and equipments.

➤ **Faculties**



PANDYA NIDHI CHIRAG

Incharge HOD (Regular)

M.E. in Environmental
management

Joining Date:27-10-2016



**Mr. MEHTA PRATIK
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Lecturer(Regular)

B.E. - Civil

Joining Date:20-11-2020



**Mr. ASHISHKUMAR J.
PATEL**

Lecturer(Regular)

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Joining Date:10-09-2015



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**Mr. DHAVAL
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Lecturer(Regular)

M.TECH (S.M. & F.E.)

Joining Date:07-07-2016



**Mr. GAURAVKUMAR K.
PATEL**

Lecturer(Regular)

M-Tech in Urban Planning

Joining Date:01-10-2018



**MISTRY HIRENKUMAR
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ADITI KAMLESH SHAH

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Joining Date:01-09-2018



BHAVINIKUMARI P. PATEL

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B.E. - Civil

Joining Date:04-09-2018



HITIKSHA P OZA

Lecturer

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Mrs. Vrutti D Garasiya

Laboratory Assistant(Regular)

Diploma in Architectural Asst

➤ Labs In Civil Department



Surveying Laboratory

Our surveying lab offers supplemental experience in fundamental land surveying measurement methods for surveying courses, including precision steel taping methods to perform horizontal measurements, traditional transits and digital theodolites to perform angular measurements, and traditional and automatic levels for elevation measurements. In addition, students have the opportunity to use total station equipment, which enables horizontal, vertical, and angular measurements to be made in one operation. Specialty equipment: Total Station Digital Theodolite



Computer Laboratory

At Computer laboratory, students get professional training on Basic operations, components of computer, MS office, Internet and 2D & 3D drafting of civil engineering drawings using the latest version of Autocad software. Students will learn computer aided design layout and 3D solid modelling definition. Students will also gain the knowledge of design and drafting needed for civil engineering discipline.



Hydraulics Laboratory

The Hydraulics lab houses the tools to learn calibration principles, make fluid and flow measurements, and collect, analyze, interpret, and communicate clearly the data and results of a fluid-mechanics experiment. Investigations: Fluids properties Fluid statics Velocity measurement by Pitot Tube Bernoulli Theorem Continuity Theorem Momentum Theorem Friction loss of pipe flow Drag force Channel flow measurement



Water Supply and Sanitary Engineering Laboratory

In Water Supply and Sanitary Engineering laboratory, students will be able to determine various properties of water & waste water and find suitability of water or waste water for further usage. To determine the properties of water and wastewater following experiments are carried out at our institute. Determine pH value Determine Hardness of potable water Determine Residual chlorine from given sample of water Determine Turbidity of water sample Determine B.O.D. of wastewater sample Determine C.O.D. of wastewater sample Determine S.V.I.&S.D.I. using Imhoff cone for wastewater

ELECTRICAL ENGINEERING DEPARTMENT

The Electrical Department at Government Polytechnic, Valsad has been active since its inception in 1965. The department of Electrical has well equipped Labs includes Electrical Circuits and Electrical Instrumentation Lab, Electronics Lab, Electrical machines Lab, Power system/Project Lab etc. The Laboratories are well equipped with Latest Experimental and Computational Facilities. The department organizes Guest Lectures, Faculty Development Programme, workshop and Seminars in Various Specialized field. The faculties of Department published their research work in Reputed National and International journals and Conferences. The department believes in the multidimensional growth of all students. Electrical department encourages students to participate in extra and co-curricular activities, sports and cultural fest etc... Industrial visits regular internships which assist the student in smooth transition from academic life to work life is regular feature of our department.

Program Educational Objectives (PEOs)

- Develops strong academic foundation for successful professional career in the diversified sectors of industry, government organizations, public sectors and multinational corporations and pursue higher education in electrical engineering and allied fields.
- Acquires skill to excel in solving technical issues by deploying modern tools, ethically and responsibly, in benefit of society and environment.
- Foster a confident and competent professional attitude as individuals and as team members in multidisciplinary projects through leadership capability in diverse fields.
- Possess positive attitude towards lifelong learning, career enhancement and adopt new technologies required for established and startup companies.

➤ **Faculties**



Mrs. Rinku Shukla
Head of Department (Regular)
M.E. (Electrical)
Joining Date:



Mrs. Parula Vachhani
Lecturer (Regular)
M.E. (Electrical)
Joining Date: 18-01-2020



Mr. Mukeshkumar Gavit
Lecturer (Regular)
M.E. (Electrical)
Joining Date: 22-01-2016



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Mrs. Ashwini Patel

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➤ Labs in Electrical Department



Electrical Machine Lab

Electrical Machine laboratory is conducted for the diploma students in their 3rd Sem(DC Machines and Transformer) and 4th Sem (AC Machines).In this course students perform basic experiments on Transformers, DC machines, Inductions motors and Synchronous machines.



Power System/Project Lab

Power System/Project laboratory is used with the course on "Switchgear and Protection " and "Project".Switchgear and Protection Lab is conducted for the diploma students in their 6th Sem. Switchgear and Protection Lab equipped with all types of relays for transformer, generator and motor protection has been developed. This laboratory is useful to the students of final year Electrical Engineering in getting the upto date knowledge of the working of the various types of relays by actual demonstration. Project Lab is conducted for the diploma students in their 5th and 6th Sem.This Lab is provided with a bread board for testing their own circuits. Also AC and DC supply system is available for the students project circuit testing.



Electrical Circuits and Electrical Instrumentation Lab

Electrical Circuits laboratory is conducted for the diploma students in their 2nd Sem(DC Circuits) and 3rd Sem(AC Circuits). In the Electrical Circuit Lab is well equipped with all the experiment set up such as Ohm's Law verification setup, Kirchhoff's current law (KCL) and Kirchhoff's voltage Law (KVL) verification setup are present. The lab is also equipped with instruments like megger, all type of resistive inductive and capacitive load are present for performing R-L-C ckt. It also include all types wattmeter,clip-on meter, D.C supply board, etc. Electrical Instrumentation laboratory is conducted for the diploma students in their 3rd Sem. In this course students perform basic experiments on Bridges to measure resistance, inductance and capacitance.



Electronics Lab

Electronics laboratory is used with the course on "Digital Electronics ", "Electronics Components and Circuits" and "Power Electronics". Digital electronics laboratory is very important to the 2nd year 4th semester students because in this lab student learns the basic working of the digital electronics circuits. The experiments included in the curriculum cover majority of the digital circuits studied in theory like logic gates, multiplexers, de-multiplexers, encoders, decoders, adders, subtractors, flip-flops, counters, registers etc. Digital electronics is also the base of computer technology. Today complete computers on a single chip, called microcontrollers, bring "intelligence" to many products of our daily use. Electronics Components and Circuits laboratory is conducted for the diploma students in their 3rd Sem. This lab has Oscilloscopes, signal generators, multi meters, etc. to carry out experiments. Power Electronics laboratory is conducted for the diploma students in their 5th Sem. Power Electronics Lab is a universal learning platform which is very useful for Students to understand the concept of power electronics. Students can perform experiments like VI characteristics of the power electronic devices, single phase controlled rectifiers, DCDC choppers, Inverters etc.

MECHANICAL ENGINEERING DEPARTMENT

Welcome to the Department of Mechanical Engineering at Government Polytechnic, Valsad. Department offers Diploma in Mechanical Engineering with 120 intake capacity in both the shifts. Along with fully equipped Workshop facilities, the department has well equipped Laboratories for CAD/CAM, F.M.H.M, M & I, I.E, and Thermal Engineering. The department consists of highly qualified, well experienced and dedicated faculties. Department regularly arranges Expert Lectures and Industrial visits along with workshop and seminars for the development of the students in various field. The department encourages and supports students in extra and co-curricular activities like sports and cultural programmes. We are also focused for the campus placements for our students.

Vision

- To be one of the well-recognized department by inculcating technical knowledge and professional skills according to evolving demand of the industries in social interest.

Mission

- To become a model department for an outcome based education by adopting best practices in the field of mechanical engineering.
- To develop creative thinking, problem solving ability and interpersonal skills in students to overcome professional challenges by providing conducive environment.
- To interact with industries to achieve employer focused learning by providing technical expertise and training to students on advanced technologies.
- To develop responsible citizens by promoting social activities and awareness of environmental issues.

Program Educational Objectives (PEOs)

- To be an expert technician by applying fundamental knowledge and methods of mechanical engineering in novel way to contribute in the growth of organization.
- To be peer recognized professionals with creative thinking and problem solving ability to varying challenges in the field of mechanical engineering.

- To be an entrepreneur, that thrives to lead organization with honesty and ethical values using sustainable technological advancements for the benefit of the society.

Program Specific Outcomes (PSOs)

- The program demonstrates the processes of design, manufacture, test and prepare technical reports with suitable methods.
- The program includes utilization and maintenance of equipment, measuring instruments, machine tools and design software related to mechanical systems.
- The program creates engineers, who will produce high quality products in keeping with the needs of the society as well as the conservation of the environment.

➤ Faculties



BHAVESH N. PATEL

Head of Department

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**Mr. KANAIYABHAI
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➤ Labs in Mechanical Department



CAD LAB

CAD LAB is conducted for the diploma students in their 3rd Sem (Computer Aided Machine Drawing) and 4th Sem (Computer Aided Design). An arrangement of 27 computers with CAD software installed like Auto CAD and Autodesk Inventor. At CAD lab, students get training on 2D drafting and 3D Solid Modelling of Mechanical engineering drawings using the latest version of CAD software.



MACHINE SHOP

In this shop student can perform different operations on different machines like lathe, drill machine, shaper machine, milling machine, grinder etc. Student aware about all this machines principals, parts, mechanisms and operations with different cutting tools. also they know about safety and precaution during machine work. This shop is included in 3rd sem, 4th sem and 5th sem of subject ME-I, ME-II and ME-III respectively.



THERMAL LAB

Thermal Engineering Laboratory used in the subject of TE 1, TE 2, etc. for the mechanical engineering student in their 4th and 5th semester. It is well equipped Laboratory in which Four stroke Diesel engine test rig, Multi cylinder petrol engine test rig, Vapour compression test rig, various tools kit and various models of Boilers and IC Engines are available. This Equipment is used to perform practicals like study of, various boiler, to measure the performance of IC engine, to find out COP of refrigeration system etc. in above cited subjects. By doing practical work in this Laboratory, student can understand the concepts and various principle of Thermal Science.

PLASTIC DEPARTMENT

Plastic Engineering is a unique area to serve society by way of better living quality with comforts. From morning to bed time, earth to sky wherever you go, you will find applications of plastics. Diploma holders get golden opportunities in service and self reliance. Nearly 100% placement of pass out student is an added advantage. All the best for carrier oriented people.

Vision

- To be one of the leading departments in developing dynamic diploma plastic engineering professionals according to evolving industrial trends in national interest

Mission

- To become a model department for Outcome Based Education in plastics material, processing, testing and mould design.
- To develop productive mindset, problem solving skills and interpersonal skills in students to face professional challenges.
- To provide quality learning systems through development of academic processes and industrial linkages.
- To establish synergistic relationship with industries for mutual benefit.
- To develop professionals with responsibility towards social, national and environmental concern.

Program Educational Objectives (PEOs)

- To meet existing and future need/demand of technical manpower in plastics and allied industries.
- To undertake the task of design, development, production, testing & quality control, mould design, maintenance & safety, technical sales & service and entrepreneurship in plastics engineering.

- To understand the consequences of their work, both ethically and professionally, for productive professional career with greatest concern towards environment and betterment of society.
- To demonstrate the ability to enrich professional development through continuing education.
- The graduate will be a competent professional with high-level technical proficiency in the field of Information Technology to identify problems and develop innovative solutions to meet the industrial needs.

Program Specific Outcome (PSOs)

- An ability to apply principles of material selection, product & mould/die design and development in plastics engineering.
- An ability to conduct safe and environment friendly manufacturing and recycling of plastic products.

➤ Faculties



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➤ Labs in Plastics Department



PROCESSING LABORATORY

The Plastics processing department of PLASTIC ENGG., GP VALSAD is equipped with both the conventional processing machines as well as modern micro processor controlled processing machines and provides a broad range of practical training to students. As a measure of providing hands on training to the students on commercial moulding and processing of different plastic materials using various process parameters, various processing equipments are installed in the laboratory. PROCESSING LAB is undertaking various experiments in the areas of subject as per the syllabus designed by university include Inspection, proving and evaluation of moulds and dies and moulding of components. it also covers the testing of mouldability and optimization of processing conditions/parameters. Available equipments/machinery: • Single screw extruder • Automatic injection molding machine • Two stage air compressor • Blow molding machine



TESTING LABORATORY

The Testing Laboratory equipped with various machineries and equipments imparts hands on practical training to students in the areas of subject as per the syllabus designed by university includes testing and quality control assignments, plastics materials/ products/ composites testing/inspection. Available equipments/machinery: 1. Melt flow index tester 2. HDT tester



FABRICATION LABORTORY

Fabrication Laboratory is a small-scale workshop offering personalized fabrication. This laboratory is typically equipped with various machines with the aim to make "almost anything". Available equipments/machinery: 1. Bench drilling machine 2. Grinder 3. Jig saw machine 4. Bench and disk grinder

APPLIED MECHANICS DEPARTMENT

Mission

- To encourage students to follow the innovative skills to create their own recognition in the field of civil engineering.
- To create the moral and ethical values among the students to serve our society.
- To make capable to avail solution to the problem of industries of our country.

Vision

- To provide strength of knowledge for the development of technology with great desire to our students and to keep ensure for constructive human behavior of our students towards the society.

➤ Faculties



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➤ Labs in Applied Mechanics Department



APPLIED MECHANICS LABORATORY

Engineering Mechanics is the branch of science that considers the motion of bodies and the effect of forces on that motion. Applied Mechanics describes the behavior of a body, in either a beginning state of rest or of motion, subjected to the action of forces. All the equipment for the practical like Law of forces, Beam reaction, Centroid of lamina, Friction and Simple Machines are available in the laboratory.



MATERIAL TESTING LABORATORY

Material properties must be known for the effective use of material. To determine the properties of materials under different conditions testing is required. In material testing lab all the equipment for testing of different materials are available like Universal Testing Machine for tension as well as compression testing, Impact machine for impact test, Fly wheel for Moment of Inertia, Brinell Hardness testing machine for testing hardness of material, Deflection of Beam etc.



SOIL MECHANICS LABORATORY

Soil is important part of any structure as the load of any structure will transfer in the soil at the end. For the stability and execution of structures we need to understand various properties of Soil with the help of different soil experiments. In the laboratory of soil mechanics we have all the equipment for testing of soil like Sieves for sieve analysis, Automatics sieve shaker, Casagrande Apparatus, Core cutter, permeability equipment, Constant head and falling head equipment, sand replacement apparatus, Oven, Direct shear test equipment, Automatic soil compaction equipment etc.



CONCRETE TECHNOLOGY LABORATORY

Concrete is the main material of any reinforced cement concrete structures. As a concrete is important structural element, Properties of concrete must fulfill design requirements. For the testing of different parameters of concrete we have equipments in our concrete technology laboratory like Vicat apparatus, Flakiness and Elongation test apparatus, Los Angeles Abrasion Testing machine, Concrete Mixture Machine, Automatic Compression Testing Machine, Vibrating Table etc.

APPLIED SCIENCES AND HUMANITIES DEPARTMENT

Mission

- To impart fundamental knowledge for understanding the concepts of engineering and to develop problem solving, analytical and quantitative abilities.

Vision

- To provide quality education and inculcate moral values to create dedicated engineers and responsible citizens.

➤ Faculties



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➤ Labs in Applied Sciences and Humanities



Physics Laboratory

The physics laboratory is for the better development of the diploma students to provide practical understanding and opportunity to enhance their knowledge by exploring. It is well organized and equipped with all the necessary instruments. The students studying the courses Physics and Applied physics perform the experiments in this laboratory. Applied physics is offered to students of civil engineering, mechanical engineering and chemical engineering in first semester and plastic engineering in second semester, while Physics is offered to information & technology and electrical engineering students in the second semester.



Chemistry Laboratory

Engineering and Technology have become interdisciplinary with science as a science contributes immensely to the development of engineering practices. For that we have designed a chemistry laboratory to furnish practicals as per the industrial needs of diploma engineering students.



Language Laboratory

A Language laboratory is a dedicated space for language learning where students access audio-visual materials for language acquisition. Language Laboratory is an almost a necessary component to have a good command over the English language for overall success in life/ to teach language in an easier and effective manner. Having clarity, accuracy and fluency of the English language enhances confidence which opens up doors to the new avenues. A student understands the nuances of the English language which serves as a platform to rise and evolve in his/her life and career. Thus, it is vital that provision for an English language lab is made to strengthen the skills for this global language. LSRW is a natural way of learning a language. The four basic language skills are to be learnt in a sequence which is very much required for effective language acquisition. It is similar to learning a mother tongue in the logical order of the four steps such as Listening, Speaking, Reading and Writing known as LSRW. In the Language Lab at the institute, teaching and learning efficiency is intensified with the advanced, unique and user-friendly features to improve vocabulary, pronunciation, intonation, phonetics, pace of speech, syllabic division and stress patterns, voice modulation, fluency, assessment of speaking and listening skills, communication skills, presentation skills, interview skills and soft skills. Sufficient numbers of computer systems are dedicatedly available for the language lab in our institute with software. We use EWL (English Edu. -will. Wordsworth-Language Lab) software for English Language Laboratory. It is innovative English language laboratory software, which gives students the ability to learn English language; this software can be accessed any time within the campus. The software is designed to cover needs of different levels students.

➤ STUDENTS ORIENTED ACTIVITIES AND AMENITIES

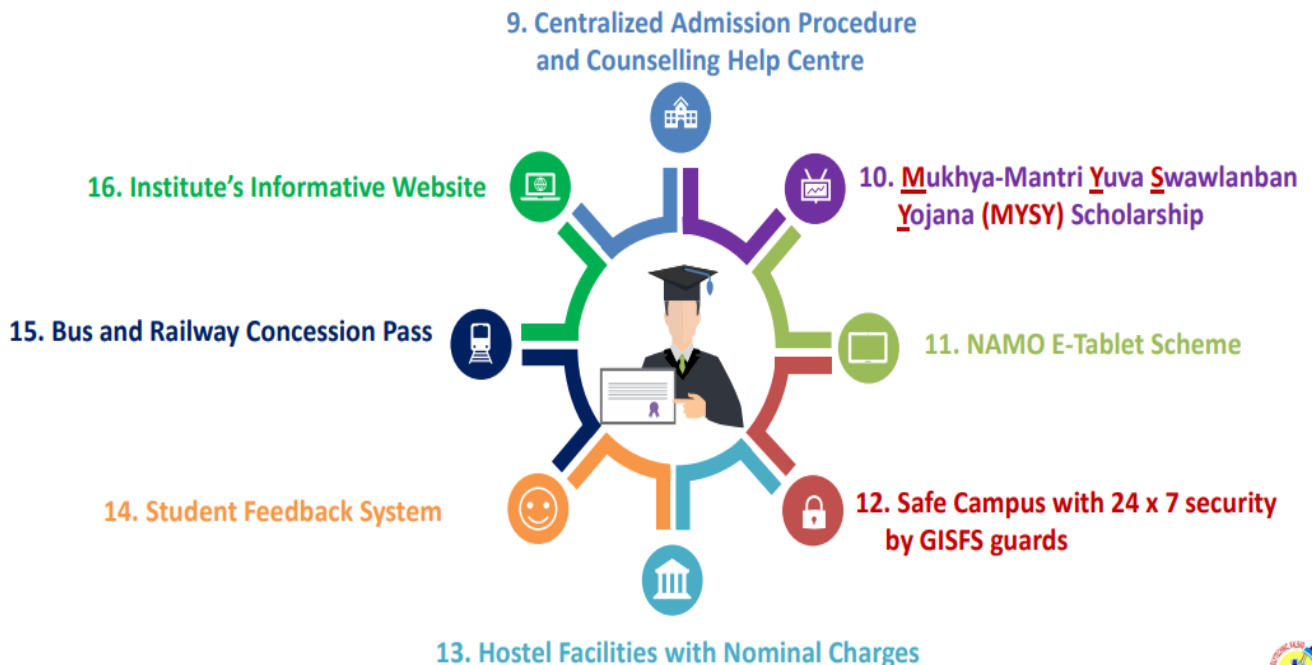
Policies for Students :-



Government Polytechnic, Valsad



Policies for Students :-



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Group Activities :-



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✓ NSS Cell is functioning effectively in the Institute.

NSS Activities:-



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NSS Activities

Government Polytechnic, Valsad



NSS Activities : Covid-19 Precautionary Measures



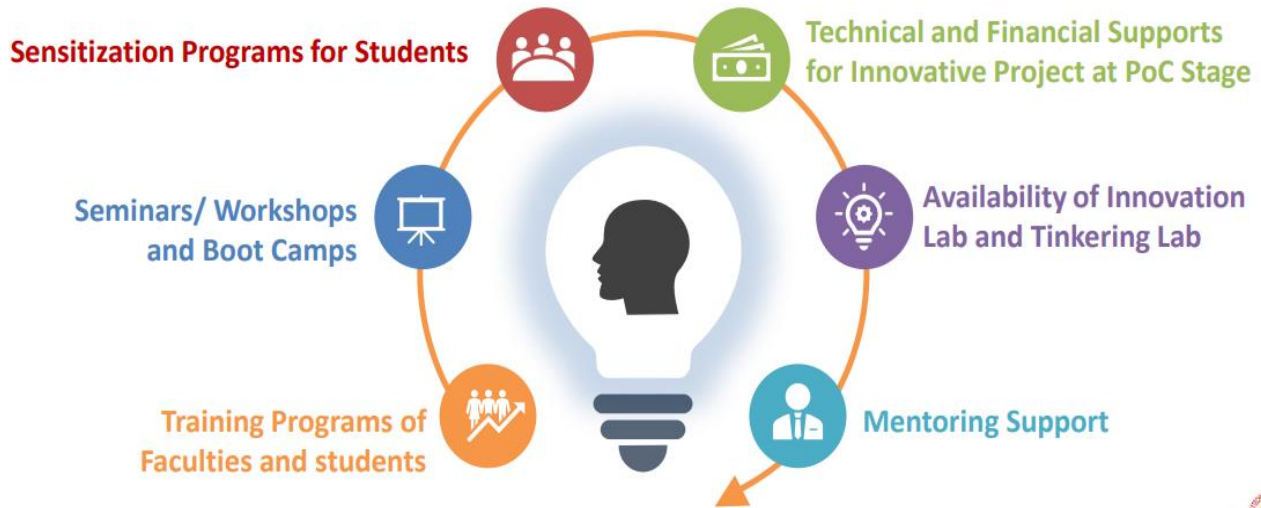
Covid-19 RT-PCR Test

Covid-19 Vaccination Camp

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Activities under SSIP:-



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PoCs Supported under SSIP:-

Utilization of Copper slag with replacement of fine aggregate in concrete mix



Agricultural Spray Pump



Multipurpose water bodies cleaning machine



Smart Goggle



Control of Home appliances using Blue tooth devices



✓ **FINISHING SCHOOL** is functioning effectively in the Institute.

The institute is running FINISHING SCHOOL program in accordance with Knowledge Consortium of Gujarat-KCG, under Government Polytechnic, Valsad in order to enhance Employability Skills, Life skills and Functional English Skills of students. This program is for the final year students of all branches.

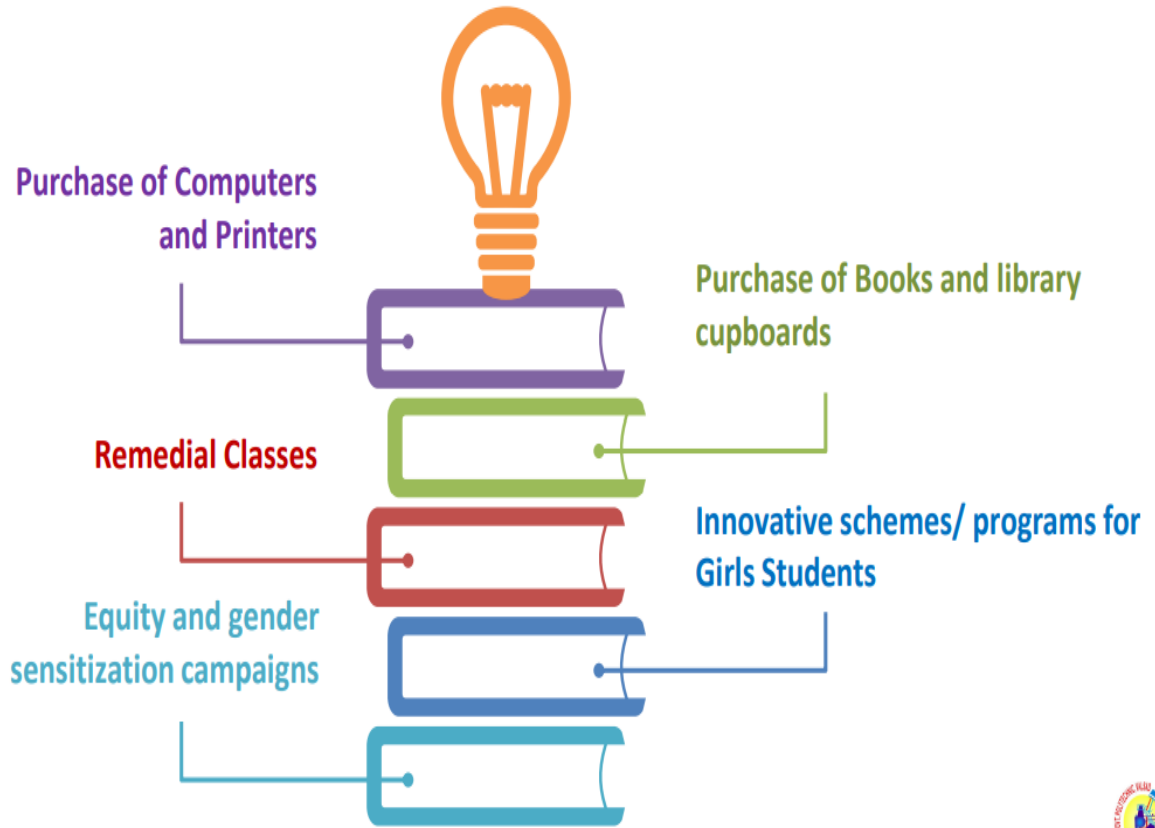
Activities Under Finishing School Program:-



✓ **Rashtriya Uchchatar Shiksha Abhiyan (RUSA) :**

SC/ST students get benefits from the grant given under RUSA, by the government.

Activities under RUSA:-



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✓ **Training & Placement**

Over the last many decades Government Polytechnic, Valsad is risen as one of the most preferred institute for acquisition of talented students from the Campus. The Placement Cell in the institute has been operational with the dual objectives of providing counselling to the students for their career development and arranging campus placement drives with prestigious industries to provide best opportunities to students.

Training and Placement Cell :-

Program	Sanctioned Intake			No. Of Pass outs			No. Of Students Placed			No. of Students went for Higher Studies		
	2017-2018	2018-2019	2019-2020	2017-2018	2018-2019	2019-2020	2017-2018	2018-2019	2019-2020	2017-2018	2018-2019	2019-2020
Chemical Engineering	180	180	180	77	72	101	32	40	11	10	16	25
Civil Engineering	180	180	180	56	73	73	0	1	1	10	6	26
Electrical Engineering	180	180	180	76	65	84	24	10	07	24	24	21
Mechanical Engineering	240	240	240	87	67	93	13	16	9	1	11	29
Plastic Engineering	90	90	90	32	27	17	03	02	07	05	03	02
Total	870	870	870	328	304	368	72	69	35	50	60	103

Government Polytechnic, Valsad



- ✓ **I. S. T. E. (Indian Society for Technical Education)** students' chapter, is constituted for overall Development of Students. It provides guidance & training to students to develop better learning skills and personality. ISTE chapter of our Institute organize various activities like Debate Competition, Industrial visit, Expert Lectures, Quiz Competition, Seminar, Thalassaemia test etc. This also promote students to attend ISTE events outside campus.
- ✓ **Alumni Associations:** A pass outs students associations is existing since 1980. They are doing activities for institute & students of this college.
- ✓ **Students Stores :** Provide different stationeries for laboratories and drawings.
- ✓ **Mukhya Mantri Apprenticeship yojana (MAY)**

Mukhya-Mantri Apprenticeship Yojana (MAY) & Job Fair:-



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Co-Curricular and Extra Curricular Activities:-



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Co-Curricular and Extra Curricular Activities

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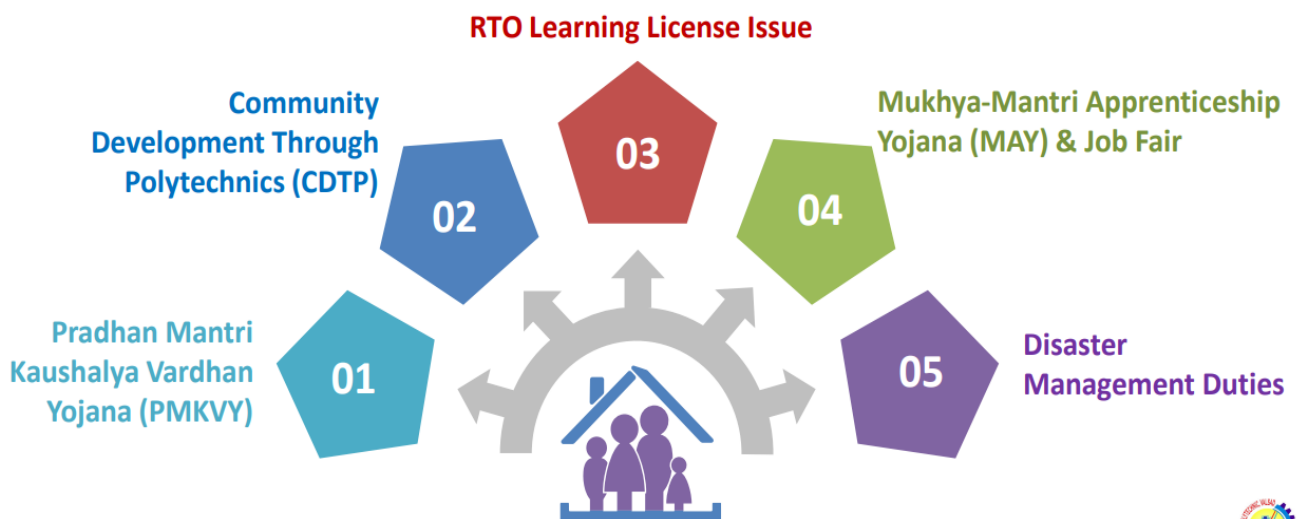


Co-Curricular and Extra Curricular Activities

Government Polytechnic, Valsad



Social Services :-



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RTO Learning License Issue Activity :-



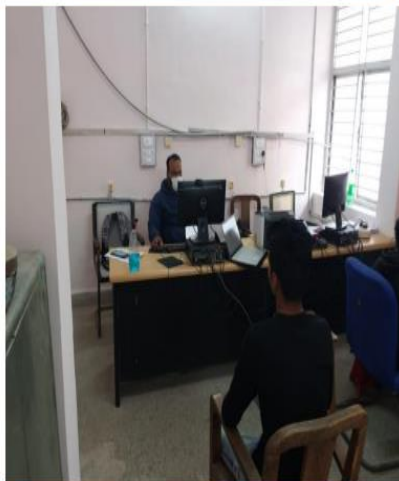
Total Appointment
Operated: 7000+



Candidates Appeared in
LL Test: 5500+



Learning License
Issued:- 4353



Government Polytechnic, Valsad



AWARDS AND ACHIEVEMENTS OF GP VALSAD



**Champions GTU Spirit-2018 (Season
Cricket)**

04-06-2018



**Champions GTU Season Cricket-
2022**



**Volleyball Runners-Up GTU Spirit
2022 (Surat Zone)**

RUNNERSUP G.T.U SPIRIT-2018 (FOOTBALL)



**Runners-up GTU Spirit-2018
(Football)**

Thank you