

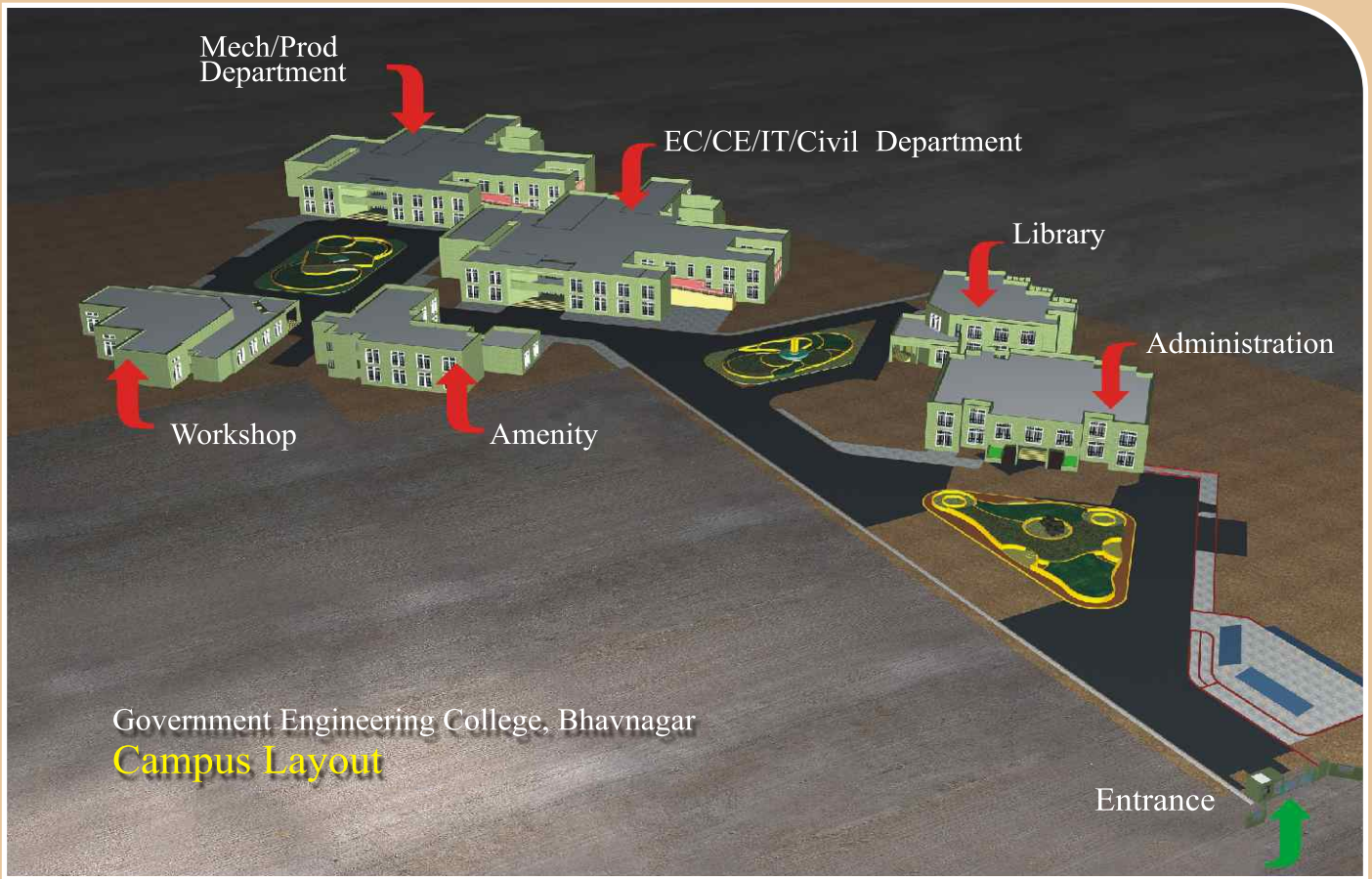


# GOVERNMENT ENGINEERING COLLEGE BHAVNAGAR

INFORMATION BROCHURE



(Affiliated to Gujarat Technological University)



## Key Plan





## About Institute

Government Engineering College (GEC), Bhavnagar is State governed institute offering multi-discipline undergraduate programmes in engineering field. The institute is approved by All India Council of technical Education (AICTE), New Delhi and is affiliated to Gujarat Technological University (GTU), Ahemdabad.

The institute was established in the year 2004 with intake capacity of 120 students in the discipline of Electronics & Communication and Production Engineering, subsequently the intake increased up to 300 students in the year 2008 with Electronic & Communication (120) seats and Production Engineering (120) seats and commencement of Mechanical Engineering (60) seats. In the year 2009, the total intake of the institute has reached to 540 students with introduction of Computer Engineering (60), Information & Technology (60) and Civil Engineering (60) as the new initiatives along with the increase of 60 more intakes in Mechanical Engineering.

The New campus of the institute was inaugurated by Hon. Chief Minister of Gujrat State, Shree Narendrabhai Modi on 18<sup>th</sup> Feb, 2009. The campus is located in the peaceful and sylvan surrounding area of academic hub, in the middle of Bhavnagar city, just 1 km. away from the State Transport Depot and only 4.5 km. away from Bhavnagar Railway Station. The campus is spread over 43400 square meters of land area with 14300 square meters of land having huge newly constructed buildings of Electronics & Communication, Computer, Information Technology Department, Mechanical, Civil and Production Engineering Department, Library, workshop, Amenity and Administrative blocks. The Library possesses more than 13000 books for all subjects with book bank facility for the needy students. The campus blends beautifully with the green landscaping, aesthetic elegance of structure and vibrant pursuits of knowledge by enthusiastic, energetic and well qualified experienced faculties.

## Mission & Vision



### Mission

To develop high quality technical education and individuals with a sound knowledge of basic engineering principles, technical and managerial skills, innovative research capabilities and exemplary professional conduct that will best serve the nation and the world in the true spirit of globalization. GEC, Bhavnagar considers that perfection can only come from dedication to acquire and share useful knowledge and skills through individual, enterprise and mutual co-operation.

### Vision

Sharing a better future for mankind by developing, efficient, effective and socially responsible individuals and organizations, for the peace and the betterment of the Nation and the World.





## Resources....

### Library

Government Engineering College, Bhavnagar has always been active in improving the library facility. It offers its service to about 1500 students of different branches of engineering and faculties from various departments of the institute and neighboring institute. The college has procured more than 13000 books comprising of text books and various reference books costing more than 24,00,000 Rs. The library software is also procured and college is planning to automate its operations.



### Workshop

A modern workshop has been established to acquaint the students with basic of Manufacturing Processes. It is equipped with machineries like Lathe, Milling, Wood working Lathe, Shaping, Electric Arc welding, Spot welding, Drilling, Vertical machining centre machine etc...

### ⚙️ Amenities Centre

The amenity centre has facilities like Girl's room, Canteen, Student store & Sport related facility. The institute has well established student store which provides facilities like Xerox, Stationeries, Book bank, Workshop instruments to students.

### ⚙️ Computing Facility

The Institute has latest computer facility having 290 computers, and 2 Mbps of broadband internet connectivity. The institute campus has Wide Area Network.

### ⚙️ Gujarat Knowledge Society

The Institute is allotted one GKS training centre. Under Gujarat Knowledge Society, 19 IT courses and 20 non IT courses have been covered. Students from S.S.C. passed to post graduate can enroll for courses from level 1 to level 4. At present courses on C for beginners and Autocad-2D are going on at our centre.

### ⚙️ Training & Placement Cell

Industry institution interaction is very important for academia and industries as both are dependent on each other. Education system has to be in pace with the industrial demand and institute has to feed industry with required professionals. The institute has set up training and placement cell to cater the need of students like industrial training, visits and placements.



## Production Engineering Department

Modern era is the era of manufacturing where the Production Engineering has established its own place. Every moment the technology is updated and hence manufacturing is grown up with advanced technologies. In this scenario, Production Engineering has become KEY department in all industries for all kinds of products.

In the institute, Production Engineering Department is one of the oldest departments. The department is one of the core departments with better infrastructure facilities and equipped laboratories. It's having its own separate building surrounded with beautiful gardening.

The department have well qualified and quite experienced faculties. Apart from routine academic activities, the information about various entrance exams like GATE ( Graduate Aptitude Test in Engineering ) , CAT ( Common Aptitude Test ) for post graduate studies is given according to the areas of inclination of students. The students are charged up with extra curricular activities like technical quiz, competition, paper presentation, model making and seminars. Every student is special one and is cared enough to prepare him/her self for future challenges.

Frequent industrial visits are arranged in near by industries to get familiar with the industrial environment as well as to correlate theoretical knowledge with practical applications.





## Electronics & Communication Engineering Department

The department of Electronics & Communication Engineering was established in year 2004 with intake of 60 students and successively intake has been increased to 120 from 2008 onwards. Department aims to provide quality education to the students in Electronics & communication engineering to mitigate the needs of industries. The areas of Electronics & communication engineering comprise of Analog and Digital Electronics, Analog and Digital Communication, Antenna and Wave propagation, Microwave engineering, Fiber optic communication, Audio Video Engineering, Microprocessor and Microcontroller, Computer networking, Automation, Embedded Systems, VLSI Design, Digital signal processing, Computer programming with rich set of elective subjects.





## Mechanical Engineering Department

Mechanical engineering, backbone of all fields of Engineering & Technology, offers ample opportunities in various fields of engineering & technology like Design, Manufacturing, Thermal and Process industry, Power industry, Quality & Management etc. As a result, mechanical engineers have always been in huge demand and continue to be in future with first choice amongst the engineering aspirants.

Mechanical engineering department was established in the year of 2008 with intake of 60 students and subsequently increased to 120 from 2009 onwards. Department aims to provide industry oriented need based quality technical education in the field of mechanical engineering to cater the huge demand for professional mechanical engineers. Core and advanced subjects related to mechanical engineering like Engineering Graphics, Thermal engineering, Manufacturing processes, Fluid power engineering, Power plant engineering, Machine design, Automobile engineering, Computer aided design(CAD) and Computer integrated manufacturing(CIM), are being taught with the help of latest Teaching-Learning aids. Well qualified and experienced faculties as well as laboratories with state of the art sophisticated equipments and machines are the real asset of this department. The department is having well equipped laboratories in all areas of mechanical engineering. Besides this, department has a modern computer centre with latest computer systems powered with softwares related to mechanical engineering and internet connectivity.





## Civil Engineering Department

Civil engineer plays a very important role in the infrastructural development of the country. As India is developing at a rapid rate, its infrastructure needs are also increasing. To satisfy its need, large numbers of civil engineers are required. In this current stage of economic revolution, the scope of civil engineering is increasing by leaps and bound. We are lending our helping hand for India's development by trying to produce some good quality of civil engineers.

In this institute the Civil Engineering branch has been started in the year 2009. The first batch has reached the fifth semester. The department is in developing stage with some fully developed labs while other labs are under development. The department has a fully developed mechanics of solids lab having major equipments like Izod impact and Charpy testing machine, Brinell hardness testing machines and all the equipments related to the practical of Engineering Mechanics. Survey lab is also equipped with all the major equipments like theodolite, plane table, levels, chains, staff etc. Department is also using the well developed fluid mechanics lab on sharing basis with mechanical department.

The department has also its own computer centre equipped with latest computers and connected to LAN. Students can have access to the internet from all the computers.

As the faculty members have their specialization in different areas of civil engineering, the students can get thorough knowledge of all the areas/fields of civil engineering.

Taking advantage of the location of research centre of Kalpsar project in the district, we are arranging lectures of the experts involved in this multipurpose project so that the students can gain from their experience.





## Computer Engineering / Information Technology Department

The Computer Engineering and Information Technology Department established in 2009 with intake of 60 in each department. Department regularly monitor the performance and consistency of the students and also arrange additional lecture for slow learners. Department calls experts from various colleges and industries to deliver expert talk on latest technology to aware and motivate the students for the same.

Department has well equipped laboratories having more than 160 nodes and 02 servers (all of them interconnected through network) having Internet connectivity of 2 Mbps. Department have in campus Wi-Fi to facilitate students for easy access of network and learning resources.

Department has many educational software as well as audio visual aids. Department have in house resources for conducting online test like GCET and many more. Department run departmental library and reading room to enhance the knowledge. Department arrange the competitive technical events to find and encourage the technical skills and latent abilities of the students.





## General Department

General Department aims at strengthening and enhancing fundamental knowledge and basic skills through the subjects of Mathematics, Physics and Communication Skills. The principles and knowledge of mathematics and physics enlarge the comprehensive grasp of other engineering subjects and learning communication skills enables the students to express their potential and to interact appropriately at interpersonal and organizational level. General Department has larger access to the newly admitted students and hence, plays pivotal role in providing considerable assistance, guidance and motivation to the beginners.





## GEC Team





# GOVERNMENT ENGINEERING COLLEGE

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