

CITIZEN CHARTER

COLLEGE OF ENGINEERING, GOA



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INTRODUCTION

HISTORY AND PURPOSE

The college was established in 1967 for providing technical manpower initially in the fields of Civil, Mechanical and Electrical Engineering. Since then the college has continuously evolved to meet the changes in the field of Engineering. Undergraduate Courses in Electronics and Telecommunication Engineering, Computer Engineering and I.T besides two postgraduate courses in the fields of foundation Engineering and Industrial Engineering have also been introduced. The College of Engineering is the only Govt. Engineering College in Goa is offering full time and part-time courses. The college is approved by All India Council for Technical Education (AICTE) and is funded by Govt. of Goa, presently affiliated to Goa University.

College of Engineering campus, is located at Famagudi, near Ponda town. The Institute buildings, hostels, residential quarters for staff with neatly laid out roads, lawns and gardens constitute the GEC campus of about 268 acres.

The college has revised and updated the course contents and Laboratory equipments from time to time to keep pace with the changes in technology and in meeting the growing needs of the industry. In this regard various schemes have been in operation over the years, the requisite funding has been obtained from both state and central government agencies.

STUDENT LIFE AT GEC

STUDENT HOUSING

The institute has adequate residential facilities for the students who are admitted to the UG and PG programmes. It has four hostels for boys and two hostels for girls with independent mess facilities. The messes attached to hostels are fully managed by students. Every inmate of the hostel is provided with necessary furniture and every room has a ceiling fan. The internet facility is also provided to all Hostels. Common room facilities with television is available in each hostel. One of the hostels (second year) is equipped with a Solar water heating system. All inmates of the hostel have to observe prescribed rules. There are some special rules for the girls hostel.

CULTURAL AND RECREATIONAL FACILITIES

The institute has facilities for cultural and recreational activities including a gymkhana, basketball court, badminton court, football ground, etc.

STUDENT PARTICIPATION IN INSTITUTE ACTIVITIES

The students of the institute are very active partners in various curricular and co-curricular activities

Computer students organization (CURSOR) provides an academic platform for the students to have industry interaction as well as interaction with other institutions in the nature of Technical quizzes, paper presentations, seminars, etc. A website is being developed to project the activities of the department. It would also host the current status of ongoing projects and relevant information pertaining to staff and students.

ASSET (Association of Students of Electronics and Telecommunication) regularly hosts technical seminars invited lectures and quiz competitions. A series of expert lectures are arranged on Internet related topics for the benefit of staff and students. An internet club and an electronic hobby club are functional under the banner of ASSET.

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Association of Electrical Engineering Students (ELECTRA) is very active in organizing and conducting technical activities like quiz, paper presentation etc. Few expert lectures are also organized for the benefit of students and staff.

Association of Mechanical Engineering Students (MESA) has been very active in organizing and conducting technical activities like quiz, paper presentation etc. Few expert lectures are also organized for the benefit of students and staff.

ACES (Association of Civil Engineering Students) are very active and have been organizing many technical activities.

Information Technology students Association (INTENSA) the youngest student organization started in 2004, is very active in organizing various technical activities like seminars, talks, quizzes and various technical competitions. An INTENSA was the first to launch its website association which gives relevant information about current projects, students and staff.

STUDENTS SERVICES

A senior faculty is appointed as Faculty Incharge for Students Affairs, who with the help of two Associate Faculty Incharges (one for Sports and another for Culture & Seminar) interacts with students intensively in all extra curricular activities

SCHOLARSHIPS

A limited number of scholarships and other financial assistance are available to the students of the college from funds provided by Private donors for continuance of scholarships, scholarship holders are required to maintain good scholastic standing and good conduct.

TRAINING AND PLACEMENT CELL

The Training and Placement Cell is actively engaged in placing students for Job and Training in the local industry. The cell has established the link between institute and industries in Goa as well as outside Goa Viz. Pune, Bangalore, Mumbai and Mangalore etc. under the supervision of a Placement Officer, who is guided by a Faculty

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Advisor. The final year student project and industrial training is often arranged through the cell at local and outside industries. Campus interviews are organized regularly to find appropriate placement for passing out students.

ALUMNI

GEC Alumni function as a nodal agency for maintaining a liaison with the alumni all over the world and to involve them in the development of the institute. It promotes and encourages exchanging professional knowledge by undertaking and facilitating conference's seminar's lectures and meetings amongst alumni, students, faculty and others. A senior faculty has been appointed as Faculty Incharge, Alumni Affairs, to coordinate this activity.

CENTRAL FACILITIES

CENTRAL LIBRARY

College of Engineering Library was established in the year 1967. It has 60,000 books and it subscribes all together 72 National and International journals. It has following independent sections.

- | | | |
|--------------------------|---|--------------------------------|
| 1. Reference Section | - | 8000 Books |
| 2. Journals Section | - | 2000 Bound Volumes |
| 3. Circulation Section | - | 50000 Books |
| 4. Multimedia CD Library | - | 400 CD's and 237 VHS Cassettes |

The Library has 60% Book Bank facility to all the students on merit cum means basis. Besides the above Book Bank facility, a separate 100% Book Bank facility is available to ST/SC/OBC students. The Library has all types of teaching aids like LCD Projector, OHP, Slide Projector, Handy Camera, Web Camera, and Digital Camera. Internet facility is available in all sections of the Library. It has well furnished Seminar room.

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EDUCATIONAL TECHNOLOGY CENTRE

This centre has been established with financial support from state government. Objectives and scope of the centre are :

1. To become a nerve centre of the institute in terms of ideas creativity and innovation
2. To provide research on educational management and administrative process.
3. To enable and motivate forces before operation, expansion, strengthening and modernization of teaching, research and consultancy in formal and non-formal education.
4. To pool interested manpower in the institute as well as from outside
5. To create facilities and environments for interested faculties from within as well as from outside to do research on educational innovations
6. To organize certain specific programmes, vocational courses for other educational institutions
7. To organize seminars, symposia and workshops

The area in which the centre concentrates are as follows :

- College is now poised to imbibe latest developments in the field of Information Technology by way of establishing Intranet and Internet connectivity through campus wide optical fibre network.
- In addition new methods of imparting technical education are being employed using multimedia classrooms, CD-Library having computer based tutorials (Electronic Books), and Audio-Video cassettes of experts from the field, etc.
- College has already acquired a VSAT costing Rs.6.00 Lakhs (approx.) by using funds generated by college through 'testing & consultancy' and AICTE on equal sharing basis. The same is integrated into the nation-wide NIC network and would provide connectivity to the ongoing campus wide network.
- Administrative sections of the college have already been computerized and networked providing transparency and in-tune with the existing policy of the Government.
- Computer software development for educational administration and infrastructural facilities.
- Computer software development for registration, student records and time table.
- Purchase and upkeep of educational hardware.

COMPUTER CENTRE

The Computer Centre caters to the IT infrastructure needs of all staff and students of GEC. The computer centre has been developed with the prime motive of providing facilities for latest applications. It also provides internet connectivity through two dedicated service providers of 576 kbps capacity. The computer centre houses 100 nodes which include thin clients and flat clients, 4 servers and one Network attached storage which are used for the applications, mails, web information storage requirements of the users.

The computer centre is connected to all the departments through a high speed 1 Gigabit fiber optic Backbone. This connectivity is established through high throughput switches with complete redundancy ensuring that the network is live at all instance. The network attached storage space for end users makes GEC one of the very few proud owners of them.

The computer centre is thus a facility looking into the future and has been developed with the latest IT trends.

CENTRAL WORKSHOP

This college is having an excellent Workshop, which has been imparting basic practical training to the Engineering students since inception of this college.

The workshop of this College is well equipped with various machines such as CNC lathe, conventional lathes, milling machines, radial drilling machine, surface grinder, cylindrical grinder, centreless grinder, etc. It is also having a separate maintenance section which has been doing the maintenance work of varied nature required by the College. The students have done many projects of varied nature in the workshop such as 'robotic arm manipulator' by the Final Year Students.

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STUDENTS COOPERATIVE SOCIETY

A cooperative society has been in operation for more than 25 years to cater to the needs of the students and staff, which include stationary, instruments, books, etc.

CAFETERIA

This college has a full fledged cafeteria with sufficient seating arrangement and it is run on contractual basis for the benefit of staff and students.

TRANSPORTATION FACILITIES

College provides transportation facilities to the staff and students of the college between Ponda and Farmagudi campus at regular intervals. Nominal fare is collected for this purpose.

MEDICAL FACILITY:

The College has added an on-campus medical facility in 2003, with a full time Multipurpose Health Worker and an Attendant. One General Medical Practitioner visits the Medical Centre as honorary physician, thrice a week.

GUEST HOUSE:

An unused faculty bungalow has been converted to a College Guest House in 2004, to facilitate visitors from amongst alumni, parents of students, academics from other Institutions and other noted guests.

COMMUNICATION SYSTEM:

An EPABX system consisting of 130 lines has been put into operation since 2003, connecting all Offices, Laboratories, Hostels and Faculty residences, most of them with BSNL connectivity.

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ACADEMIC PROGRAMMES OFFERED IN THE INSTITUTION

Title of Academic Programme	Average annual Intake	
	Full Time	Part Time
Under Graduate (BE):		
Civil Engineering	40	-
Mechanical Engineering	40	-
Electrical & Electronic Engineering	60	-
Electronics & Telecommuniacion Engineering	60	-
Computer Engineering	60	-
Information Technology	60	-
Post Graduate (ME) :		
Foundation Engineering	10	-
Industrial Engineering	-	10

ADMISSION MODALITY

The government of Goa has entrusted the Directorate of Technical Education with the work of centralized admission for all the professional colleges which include College of Engineering where admission is based on merit lists prepared under Government approved modalities. Detailed prospectus for admission is brought out every year by Directorate of Technical Education.

10% of seats of the intake capacity (320) is filled as per the nominations of Government of India.

10% of seats of the intake capacity (320) i.e, four seats in Civil, four seats in Mechanical, six seats in Computer, six seats in Electrical, six seats in Electronics and Telecommunication Engineering and six seat for I.T are reserved for direct admission to second year for the diploma holders passing from Goa polytechnics as well as for the diploma holders who have passed from polytechnics outside the state under the reciprocal arrangements between Goa government sponsored candidates against the seats allotted by government of India in other states.

PROFILE OF DEPARTMENTS

COMPUTER ENGINEERING DEPARTMENT

Computer Engineering Department is a premier Education Center of Goa. This Department is housed in a spacious two story independent building at G.E.C campus Farmagudi.

This Department has ultra modern computing facilities.

Following various well equipped Laboratory facilities are available in the department.

Computer Laboratory, Fundamental Lab., System Soft Lab., Unix/Linux Lab., Computer Graphics Lab., Multi Media Lab., Networks Lab., Microprocessor Lab., Image Processing Lab., Analog and Digital Lab.

This department has intake of 60 students a year to B.E. course.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT

Electronics & Telecommunication Engineering Department was started in 1982-1983 with an intake of 20 students to conduct four years Bachelor course in Electronics & Telecommunication Engineering. Presently the intake is 60 students & affiliated of Goa University & approved by AICTE New Delhi. The department has 10 well-equipped Laboratories with latest state of art instruments along with Internet connectivity & LCD projector in Computer laboratory under MODROB scheme. Department has developed an Analog Digital Communication Laboratory & also a hi-tech PCB & Electronics Workshop Laboratory is under development. Well equipped facilities in VLSI design Communication Engineering Power Electronics & Instrumentation is available in the department. Faculty are actively involved in research activities. Well qualified, disciplined dedicated teaching & supporting staff is the major strength of the Department. Apart from teaching, department has a student association named ASSET. Paper presentation & industrial interaction are prominent features of the Department.

ELECTRICAL ENGINEERING DEPARTMENT

One of the oldest branch of the College, the Electrical Engineering Department has always strived to achieve the best in the field. The Electrical Engineering Department has a Yearly intake of sixty students purely on merit basis. In addition to this, a few seats are reserved for diploma holders in Electrical Engineering from polytechnics for direct admission to second year as well as nominees of Govt. of India which are reserved for students from socially and economically backward regions of the country. The Faculty includes regular qualified and knowledgeable staff with requisite experience and qualification, professionals with industrial expertise and guest faculties for emerging technologies.

The Electrical Engineering Department has well-equipped laboratories and a workshop having a multitudinous, array of equipments to enable the students to acquire experience in handling various types of sophisticated state of the art equipments and machinery. The department has in recent years been awarding BE degrees in Electrical and Electronics.

MECHANICAL ENGINEERING DEPARTMENT

Mechanical Engineering Department of College of Engineering Goa, Farmagudi conducts B.E Degree course in Mechanical Engineering and M.E post graduate course in Industrial Engineering under Goa University. The department has well qualified dedicated faculty and well established laboratories which cater to the teaching of present day technology. Many of our faculty have obtained Ph.D. degrees from Indian Institute of Technology (viz. I.I.T BOMBAY, I.I.T. MADRAS). We have very encouraging results every year, many of the students securing distinction in their degrees. Our passed out students are doing very well in India as well as abroad and have reached top positions in their chosen fields. Many of our students succeed in all India competitive examinations every year besides getting through GATE/GRE. We carry out Material Testing and Metrology tests in our laboratories and cater to the needs of the local industries and other Government Departments.

CIVIL ENGINEERING DEPARTMENT

The department runs a four year undergraduate Course with an annual intake of 40 and a two year post graduate Course in Foundation Engineering with an intake of 10 students. The department has fully equipped Laboratories and qualified faculty. Three of the faculty members obtained their Ph.D degrees from I.I.T Bombay during 2002-03. Batches of final year students have won prizes in All India Competition in best Structure Design at Calcutta.

INFORMATION TECHNOLOGY DEPARTMENT

The Department of Information Technology is the latest addition to the College of Engineering, Farmagudi, specifically designed to cater to the requirements of modern Information Technology scenario. It started in year 2001 with the intake of 60 students per year. At present, the department is housed in the building of Computer Engineering Department. The designing of new state of art building is under process. Apart from the facilities available at Computer Engineering department, procurement of modern, state of art facilities for IT department are in process.

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SCIENCE AND HUMANITIES DEPARTMENT

This department consists of faculty from the disciplines of Physics, Chemistry, Mathematics, Economics, English, etc. They train all engineering students in their subjects of expertise in accordance with specifications of respective curricular.

PUBLIC GRIEVANCES OFFICER

Shri A. D. Telang, Asstt. Professor, is appointed as Public Grievances Officer for this college. His contact Telephone No. is 0832 - **2336322**.

WORKING HOURS

College of Engineering is open on all working days between 9.00 AM to 5.00 PM with extended hours of working as and when needed.

Telephone Numbers :

Principal	0832-2335021,2336301
Administration	0832-2335022, 2336302
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**ADMINISTRATIVE STRUCTURE
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