

CITIZEN CHARTER

GOA COLLEGE OF ENGINEERING



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INTRODUCTION

VISION

A TECHNICAL INSTITUTE WITH A FOCUS ON EXCELLENCE IN ACADEMICS, RESEARCH, INDUSTRY COLLABORATION AND NURTURING HUMAN VALUES IN STUDENTS.

MISSION

1. Formulate & implement curriculum that ensures high academic standards.
2. Provide infrastructure that meets academic & advanced research requirements.
3. Collaborate with national, international institutions, laboratories and industries through student and faculty exchange programs and internships.
4. Undertake consultancy projects that are relevant to the state & nation.
5. Impart human values, awareness of environment and sustainable solutions in students and faculty.
6. Nurture innovation, entrepreneurship, leadership & resource management skills.

HISTORY AND PURPOSE

The college was established in 1967 for providing technical man power 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, Information Technology and Mining besides nine postgraduate courses in the fields of Foundation Engineering, Industrial Engineering (part time), Electronics, Communication and Instrument Engineering, Industrial Automation and Radio Frequency Engineering. Micro Electronics Engineering, Power and Energy Engineering, Computer Science and Engineering, Structural Engineering and Information Technology Engineering have also been introduced. Goa College of Engineering is recognized as Research Center under Goa University. The affiliation to Ph.D. programs in Civil, Mechanical, Electrical & Electronics, Computer Engineering and Electronics & Telecommunication Engineering are recognized from academic year 2014-15 onwards. The College of Engineering is the only Govt. Engineering College in Goa offering full time and part-time courses. The total number of students admitted per year is approximately 450 for Undergraduate Engineering courses approximately 100 for Post Graduate Courses and nearly 35 candidates are presently pursuing Ph.D. The total number of students on campus is approximately around 2200. 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 equipment's 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 on campus residential accommodation facilities for students who are admitted to the UG and PG programs. There are five boys' hostels, on a sharing basis. There are two girls' hostels. All hostels are having independent mess facilities. The messes attached to the hostels are fully managed by students. All the hostels are provided with internet Wi-Fi connections.

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

ACES – CIVIL STUDENTS ASSOCIATION

ACES (Association of Civil Engineering Students) are very active and have been organizing many technical activities. Association of Civil Engineering Students (ACES) established in the year 1993 was the first students' association to be set in the College by the Civil Engineering students. Its primary function is to maintain a strong students-faculty relationship and to organize technical seminars /guest lectures /semi technical events on various subjects that are of interest to the civil engineering field. The association also organizes a National Level Intercollegiate Tech-fest & Alumni Night programs. During this event various technical competitions, workshops, Seminars, etc. are held.

MESA – MECHANICAL STUDENTS ASSOCIATION

Mechanical Engineering Students Association started in the year 1992, provides a forum and platform for students and faculty to organize numerous technical seminars, symposiums, presentations, workshops and allied activities throughout the academic year. 'MESSERGI', a social Educational and Green Initiative is a social activity taken up by MESA. In addition, MESA takes up the responsibility of conducting lectures and other initiatives to imbibe values amongst students through its segment of value addition. The array of events organized by the association are Auto Quiz, Robo show, Robo wars Catapult, Solid works modeling, Tech Race, Black Box, Weapon Expo etc.

ENEXSA – ELECTRICAL AND ELECTRONICS STUDENTS ASSOCIATION

ENEXSA is the students council of the Electrical and Electronics Department of Goa College of Engineering, Farmagudi Goa. The association is formed in the year 2012, the council aims at the betterment of the students as well as the department. ENEXSA aims

to arrange quality workshops and seminars for the benefit and awareness of the students. It also organises field trips and industrial visits to provide exposure to the students for future prospects.

ASSET – ELECTRONICS AND TELECOMMUNICATION STUDENTS ASSOCIATION

ASSET is a non-profit organization for the overall growth of future electronics and telecommunication professionals. It aims at the growth of every students and their overall development as an individual, nurtured in all respect and made ready to face life.

IETE

The E&TC Department of Goa Engineering College is the Sub-center of IETE, Goa Chapter. The Department has its own IETE Students Forum. This chapter organises technical talks, workshops, competitions for facilitating co-curricular and skill development of the students.

IEEE

IEEE Student Branch was started in 2012 and is housed in the Electronics & Telecommunication Engineering Department. The members of the student branch are actively involved in organizing various workshops, conferences and seminars every year.

CURSOR - COMPUTER STUDENTS ASSOCIATION

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 webpage 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. The Computer Engineering students are associated with GEC Computer Society of India (CSI) – Students Chapter, IEEE – Computer Society (CS) - Students Chapter, Goa Android Users Group (GAUG) - Students Chapter ,GEC FOSS Community, GEC Coders Club etc.

INTENSA - INFORMATION TECHNOLOGY STUDENTS ASSOCIATION

INTENSA is the Information Technology Students Association of Goa College of Engineering, Farmagudi, Goa. This platform enables the students to showcase their creative and innovative ideas in paper presentations, hard-core workshops, coding, hackathons, business, photography, drama, art and culture. Under the banner of INTENSA, students organize and participate in various technical and non-technical competitions and activities including activities in the environmental and social domain. A lot of activities are conducted round the year. iTech-Times is the monthly technical newsletter of INTENSA. Students of IT Department are also associated with GEC Computer Society of India (CSI) – Students Chapter, IEEE – Computer Society (CS) -

Students Chapter, Goa Android Users Group (GAUG) - Students Chapter, GEC FOSS Community

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 Goa College of Engineering (GEC- Goa) is well known for its academic excellence and is often considered as the 'first stop' for a large number of industries and other organizations for recruiting undergraduate students. GEC's career guidance, Training & Placement office is contacting companies for arranging pre-placement talks & campus recruitments. With over 50 companies contacting each year Placement Office has maintained a prolific placement record among Engineering Colleges in Goa.

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

The college has a resourceful, rich and spacious Central library which is located at the centre of the campus. Goa College of Engineering has one of the biggest libraries among the educational institution in the state of Goa catering the needs of more than 2200 students and 330 staff (Teaching & Non-teaching). The total area of the library building is 1911 square meters. It comprises of Circulation, Reading, Reference, Journals, Digital library, Multimedia, Processing, Text Book and Book Bank Sections. The ever-expanding Central library currently holds 95528 books and Springer E-book Consortium. It has approximately 100 Journals of National and International acclaim. It also subscribes to E-journal consortium from Science Direct, ASME, ASCE& DELNET, The Institute has unique Book Bank facility which provides 26 books to each student for the year. Around 50% students are extended this facility.

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 1Gbps and 140 Mbps capacity to the entire campus via fiber optic cable. The computer centre houses 60 nodes and 3 server machines. The computer centre is connected to all the departments through fiber optic Backbone. This connectivity is established through high throughput switches with complete redundancy ensuring that the network is live at all instance.

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.

STUDENTS COOPERATIVE SOCIETY

A co-operative society has been in operation for more than 35 years to cater to the needs of the students and staff which include P.C.O., photocopying facility, stationary, instruments, etc. Different application format for applying to scholarships and certificates are also available here.

CANTEEN

The institute has full-fledge canteen with sufficient seating arrangement and it is run on contractual basis for benefit of staff and students. Also there are tea shacks outside campus which serve fast foods.

TRANSPORTATION FACILITIES

The institute provides transportation facilities to the staff and students of the college between Farmagudi Campus & Ponda at regular intervals. Nominal fare is collected for all official trips, KTC also supplements transport facilities by running their buses from important cities of Goa to college campus.

MEDICAL AND COUNSELLING FACILITY

A medical dispensary is available in the campus which is located near staff quarters on the left side of road leading to ITI (near Girls hostel).

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.

BANK& ATM

A full fledge bank branch and ATM of Corporation Bank (Govt. of India undertaking) is functioning in the campus. The bank is located near main gate in the shopping complex building. The Goa University examination fees are accepted at this branch. The bank offers educational loan, loan scheme for purchasing computer and laptops to the students. A special SB account scheme with insurance coverage of Rs.500000/- with no minimum balance is launched by the bank for the benefit of students and staff.

SPORTS & GYMKHANA

The institute has facilities for recreation with outdoor playing fields, like basketball court, football / cricket ground and indoor playing facilities like badminton and table tennis. In addition there is a well-equipped Power Gymnasium. The institute has been successful in winning laurels at the inter-collegiate university level in various sports like cricket, badminton, swimming, judo and body building, football, table tennis, best physic, power lifting, basketball, volleyball, kabaddi, hockey and kho kho.

ACADEMIC PROGRAMMES OFFERED IN THE INSTITUTION

Under Graduate (BE)	Duration	Intake
Civil Engineering	4 years	60
Mechanical Engineering	4 years	60
Electrical and Electronic Engineering	4 years	60
Electronics and Telecommunication Engineering	4 years	60
Computer Engineering	4 years	60
Information Technology and Engineering	4 years	60
Mining Engineering	4 years	30
Post Graduate (ME)	Duration	Intake
Foundation Engineering	2 years	18
Industrial Engineering	3 years	18
Power and Energy Engineering	2 years	18
Computer Science and Engineering	2 years	18
Electronics, Communication and Instrument Engineering	2 years	15
Industrial Automation and Radio Frequency Engineering	2 years	18
Micro Electronics Engineering	2 years	15
Structural Engineering	2 years	18
Information Technology and Engineering	2 years	18
Doctor of Philosophy in Engineering (PhD)	Duration	Intake
Civil Engineering, Mechanical Engineering, Electrical and Electronic Engineering, Electronics and Telecommunication Engineering, Computer Engineering	Minimum 3 years	35

**Additional intake of Govt. of India quota and AICTE-TFWS is also available.

ADMISSION MODALITY FOR UNDER GRADUATE PROGRAMME

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 are filled as per the nominations of Government of India. 10% of seats of the intake capacity 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 governments sponsored candidates against the seats allotted by government of India in other states.

ADMISSION MODALITY FOR POST GRADUATE PROGRAMME

Master of Engineering admissions are conducted by college every year. A detailed admission prospectus is published every year. The applications are invited online and admission merit list are prepared based on GATE marks/final year marks. Students having GATE score are given preference and scholarships.

ADMISSION MODALITY FOR DOCTOR OF PHILOSOPHY IN ENGINEERING

A Candidate interested to join Ph.D degree program are required to attend entrance examination conducted by Goa University. The selection process is completely governed by Goa University.

PROFILE OF DEPARTMENTS

CIVIL ENGINEERING DEPARTMENT

The department offers a four years undergraduate course with an annual intake of 60 and a two year full time post graduate courses in Structural Engineering & Foundation Engineering with an intake up to 18 students each. The department has fully equipped laboratories and qualified faculties. The academic activities of the department emphasizes deep understanding of fundamental principles, development of creative ability to handle the challenges of civil engineering. The Department conducts special training courses to enhance the analytical ability to solve problems which are interdisciplinary in nature to the needy.

MECHANICAL ENGINEERING DEPARTMENT

The Department of Mechanical Engineering at Goa Engineering College was established in the year 1967. It is a community of faculty, staff, students, alumni, industrial and governmental partners—working together to serve the society in the broadest terms through Mechanical Engineering education, research and service. The department offers full time four years undergraduate programme (B. E. in Mechanical Engineering) and part time three years postgraduate programme (M. E. in Industrial Engineering). The department has churned out the best of engineering minds over the last several years in various fields of mechanical engineering. Distinguished alumni of the department occupy critical positions in leading firms, both within India and abroad. Students of Mechanical Engineering have also successfully competed and brought laurels to institute in various examinations at national and international levels including GATE, GRE, etc. The department regularly organizes workshops and ISTE programmes for faculty as well as industry in the field of statistical decision making, optimization techniques, six sigma etc.

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

The Electrical and Electronics Engineering Department is NBA accredited earlier and is process of renewing the accreditation underway. The Department has qualified, distinguished and highly motivated teachers, researchers with extensive experience at grass root level. Department faculty members are specialized in the field of Power Electronic, Power System, VLSI, Embedded System, Microcontroller, Computer Networking and Power System & Energy.

ELECTRONICS AND TELECOMMUNICATION ENGINEERING DEPARTMENT

Electronics and Telecommunication Engineering Department was established in the year 1983. The Department offers a full-fledged Undergraduate program in E&TC Engineering with special emphasis on Robotics, Communications Engineering,

Microwaves, RF, VLSI, Artificial Neural Networks and Signal Processing. It also offers three Post Graduate Programs in Microelectronics, Electronics Communication & Instrumentation and Industrial Automation & Radio Frequency Engineering. Apart from teaching, department has student associations named ASSET, and student chapter of IETE & IEEE.

COMPUTER ENGINEERING DEPARTMENT

The Department of Computer Engineering was started in the year 1988 committed to providing a rigorous educational experience that prepares students for further study and successful careers. The department aims at producing qualified engineers in the areas of Computer Graphics, Artificial Intelligence, Network Security, System software, Embedded systems, Machine Learning etc. Summer training, industrial visits and projects are carefully planned for the students to remain update with the technology trends. The Department provides state of the art computing facilities to the students. Some of the major research areas which the faculty members and students working on are Network Security, Database, Theoretical Computer Science, Multimedia, Image Processing, Software Engineering, Data Mining, Machine Learning, Block chain etc.

INFORMATION TECHNOLOGY DEPARTMENT

The Information Technology department was established in the year 2001 with an intake of 60 students (First year) with a goal to impart high quality knowledge and skills to students in the field of Information Technology, motivate research, encourage industry consultancy projects and nurture human values and life skills. The department is well equipped with professional laboratories, high tech seminar/ conference room, Incubation Centre and an independent department library. Various workshops, lectures, industry visits are conducted with an aim to stay updated with the latest trends in Information Technology. The department has well qualified faculty members with expertise in various fields of Information Technology and specialized in the fields of Natural Language Processing, Cryptography, Artificial Intelligence, Data Mining, Image Processing, Networking, Cloud Computing, etc. The department also offers a Post Graduate program in Information Technology and Engineering. The department organizes various technical events under ITCEP (Information Technology Continuing Education Programme). The aim of this body is to enhance and promote the technical knowledge and the wellbeing of the faculty and students. Students and faculty are encouraged to participate in various technical and non-technical events at National and State level. Faculty and students publish research papers in various conferences and journals. MOU's have also been signed by the Information Technology Department with various reputed IT firms.

MINING ENGINEERING DEPARTMENT

The Mining Engineering Department was established in the year 2011. The Department offers a full-fledged Under-Graduate program in Mining Engineering which is approved by AICTE and affiliated to Goa University. The area of the Mining Engineering building is approximately 3500 sq. meter and it is fully furnished. The department is well equipped with spacious lecture halls, seminar hall, laboratories, computer centre, meeting room etc. The Department has well qualified, experienced and dedicated faculty. The Department has a student association MINESCO for organizing different technical activities.

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.

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

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