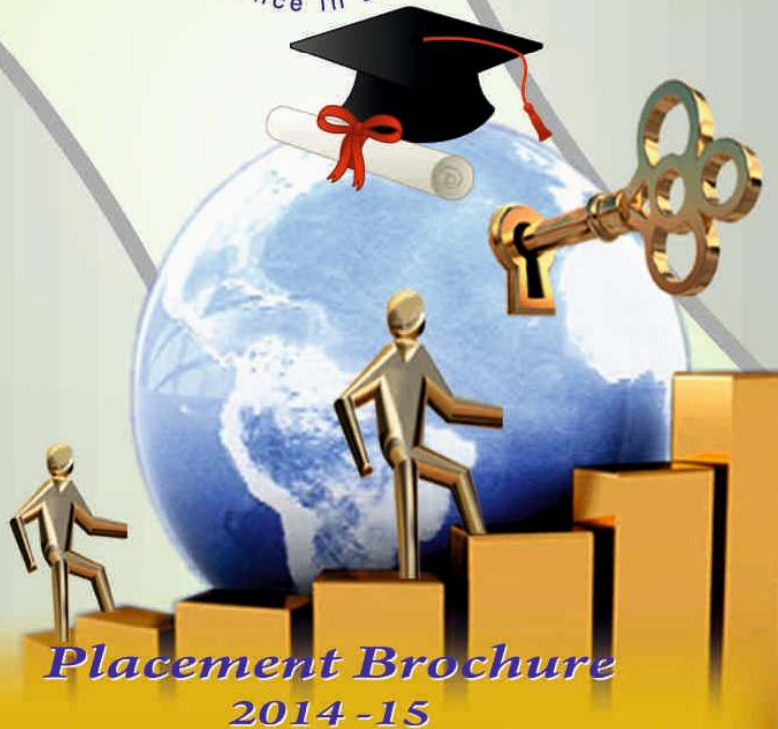


# DON BOSCO COLLEGE OF ENGINEERING

FATORDA - GOA

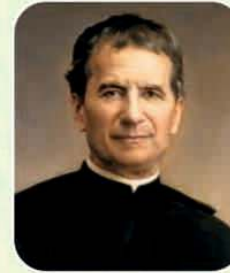


**Placement Brochure**  
**2014 -15**

**Your search for industry-ready Engineers ends here**

## ***Holistic Approach to Education - The Don Bosco Way***

The Don Bosco group of institutions is the result of the work of Saint John Bosco, popularly known as Don Bosco. He was born in Italy on 16<sup>th</sup> August, 1815. At a very young age, he was inspired and worked for poor boys with his novel method of education through total dedication and personal involvement in their lives and problems. He based his education on the three great principles of Reason, Religion and Loving Kindness. His vision of education was not in isolation from the community. Vocational guidance and training, job placements and follow-ups coupled with a sound moral education were integral to Don Bosco's pedagogy, thus making the youngster a good citizen and an upright human being.



As on date, Don Bosco institutions are present in 132 nations in the world. Through this global network of educational and social service organizations that consists of 14 universities, several institutions of higher education and thousands of schools and social development centres, it caters to the less privileged and marginalized sections of society. It currently caters to over nine million young people, the world over. Because of its reach and expertise in the field of education, the Don Bosco Society enjoys consultancy status in the United Nations.

In India, the Salesians of Don Bosco began their operations in the year 1906. From a modest beginning with a trade school and hostel for poor children at Thanjavoor in Tamil Nadu, today, the Salesians of Don Bosco have a number of institutions in India. The Assam Don Bosco University, 28 colleges which include engineering colleges, polytechnics, over a hundred technical schools and a large number of secondary schools, non-formal technical and agricultural centres spread across the country comprise the services that are being offered to society. The Government of India has recognized the Salesians of Don Bosco as the second largest non-governmental technical education provider in the country.

## OUR VISION

The Fatorda Salesian Society focuses on Innovative Education, Training and Career development for tomorrow's workforce.

## OUR MISSION

The Fatorda Salesian Society of Don Bosco Fatorda, aims at becoming a point of reference for all Youth, of the State of Goa for Quality Education, where Youth will seek and receive assistance with regard to their integral development (both technical and human), and also spiritual animation, vocational guidance, counselling, job placements and training in leadership skills.

The Institute began in July 2011 and offers 75 seats in the Bachelor of Engineering (B.E.) programme in each of the following disciplines:

- Civil Engineering**
- Mechanical Engineering**
- Electronics and Telecommunications Engineering**
- Computer Engineering**

The Institute is affiliated to Goa University and is approved by the All India Council for Technical Education.

*The first batch of Engineers will graduate in June 2015*

## DEPARTMENT OF CIVIL ENGINEERING

*Head of Department: Prof. Annapurna Sakhardande*



*Students performing Sieve Analysis*



*Fluid Mechanics practicals in progress*



*Students being explained the nuances of construction*



*Surveying practicals*

The Department of Civil Engineering is a powerhouse of technical expertise. It has contributed immensely to the existing infrastructure of the institution. Two faculty members of the department possess the Doctoral Degree in Engineering – namely Dr. C.S. Gokhale (Ph.D. from IIT Delhi) and Dr. Swetha P (Ph.D. from NIT Suratkal). Two faculty members are pursuing the Ph.D. programme. The faculty have presented and published 50 papers in international journals and conferences.

The department offers services to the industry in the areas of Geotechnical, Surveying and Structural (RCC & Steel) arena through consultancy and testing of various building materials. Konkarn Railway Corporation Ltd., ACC Ltd., Daftary Descon Engineering Pvt. Ltd. are a few of our clients.

The department regularly invites experts to deliver lectures and provide demonstrations on software and technical topics such as AutoCAD, ETABS, SAFE, GIS, Remote Sensing, Mix Design in Concrete, Regional Plan 2012, to name a few. The students have visited various soil exploration sites, RCC execution sites, the Assembly Complex - Goa, Yojana Bhavan, Sports Complex - Taleigao, Raj Bhavan - Dona Paula, Sub-district hospital - Ponda, besides other commercial, residential and buildings of the state government.

## DEPARTMENT OF MECHANICAL ENGINEERING

Head of Department: Prof. Ajit Salunke



Faculty demonstrating turning operation on lathe machine



Students attending practicals at HMT lab



Students at work



Students working on the Test Rig of an IC Engine

The Department of Mechanical Engineering has qualified and experienced faculty in the areas of Design, Heat Power, Manufacturing and Automation with an average experience of around thirteen years. Two faculty members of the department possess the Doctoral Degree in Engineering – namely Dr. C.E. Quadros (Osaka University, Japan) and Dr. P.K. Vereker (IISc, Bangalore) while two faculty members are currently pursuing Ph.D. The faculty have presented and published 15 papers in international journals and conferences.

The Department has a full-fledged workshop with the latest state-of-the-art software like ANSYS, LabVIEW, CFX, Fluent, AutoCAD and facilities for data acquisition. The following services are offered by the department:

- Manufacturing
- Non Destructive Testing, Pollution & Hardness Testing
- Training in Automation, Virtual Instrumentation, Solid Modelling, FEM/CFD Analysis with ANSYS/CFX, Programmable Logic Controllers & Hydraulics/Pneumatics

The department provides consultancy services, testing and training for industries and Government organizations.

A noteworthy contribution has been an introduction of an audit course for maintenance engineering for students in the sixth semester. The department has been leading the way in organising practical-oriented workshops and seminars for engineering faculty and industry professionals. Some of the workshop topics include Computer Applications in Manufacturing, Solid Modelling, Six Sigma, and Fire Safety among others.

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Head of Department: Prof. Michelle Araujo



Follower robot designed by students



Students working on an assignment at the Raspberry Pi Workshop



Second year students attending practicals



Students working on a project for an exhibition

The faculty of the department possess expertise that is multi-disciplinary in the field of Electronics and Telecommunication Engineering. One faculty member is pursuing the doctoral programme (Ph.D). The faculty have presented and published 11 papers in international journals and conferences.

The students of the department have won many accolades at state and national level technical events including top honors for a robotic competition at SREIT, Shiroda. The students have designed follower robots under the guidance of their robotics mentor, Prof. Devendra Sutar and have won many awards for it. The department has been actively engaged in the Spoken Tutorial Project which is promoted by National Mission on Education through ICT (NMEICT), MHRD.

The department also has an electrical workshop and laboratory. The department has MATLAB, besides other software. The department has also been actively involved in adding value to the curriculum by conducting workshop for the students. Some of the workshops are:

- Introduction to PSIM
- MATLAB
- Basic of Networks

The students have visited companies such as Digilink - Verna, Premier Electricals - Arlem, NCAOR (National Centre for Antarctic and Ocean Research) and have also undergone internships at Smartlink - Verna, Siemens - Verna, Zenith Computers, to name a few.

## DEPARTMENT OF COMPUTER ENGINEERING

Head of Department: Prof. Gaurang Patkar



Data Structures practicals in progress

The Department of Computer Engineering of the college is a pioneering department known for imparting quality education to the students. Two faculty members are currently pursuing Ph.D. in their respective disciplines. The faculty have presented and published 20 papers in international journals and conferences.



VB.Net Workshop in progress

The students have participated at various workshops on Android Development (Hackathons) and Node JS. The faculty of the department are being invited as external examiners for examinations leading to the degree of Masters in Computer Applications (MCA). The department has been actively engaged in the Spoken Tutorial Project which is promoted by National Mission on Education through ICT (NMEICT), MHRD.



Students working on mini projects

Software Developed by the Department for the college

- College Website
- Student attendance software
- Time-Table generation software
- Exam Result Analysis



Students being guided by their seniors

Besides the regular field visits to the industry, the department has also laid stress on entrepreneurship. The department has organized visits to Goa IT Innovation Centre, Verna and Centre for Incubation and Business Acceleration (CIBA), Verna. The sheer number and variety of workshops ranging from Android to Web Technologies, Cyber Crime and E-Waste Management are a testimony to the interaction with the industry in areas spanning the latest in the field of Computer Engineering.

## ALL ROUND DEVELOPMENT

Theoretical knowledge is understood much better if it is learnt in conjunction with practical exposure to the subject matter. Students of Semester V onwards undergo internship during their winter and summer vacations. Field visits of the duration of a day are arranged for students of all semesters. Each branch of engineering in the college has formed a student association which conducts workshops, seminars and other extra-curricular activities in close association with the industry. Students are members of professional bodies. Students are encouraged to take up projects from the industry under the guidance of industry personnel as well as staff of the college. In order to promote all-round development of the students, students are encouraged to take part in extra-curricular activities such as sports and cultural activities.

### Industry -Institute Interaction

#### Workshops and Seminars

Workshops and Seminars on Mix Design, AutoCAD, VHDL, MATLAB, 3D Printing, Roto-moulding, Web Development, E-Waste Management, to name a few, have been conducted at the college. Some of the workshops have been organized by senior students for their juniors, notable among them are:

- \* Introduction to Robotics
- \* Raspberry Pi
- \* C-Simpler



ISTE Workshop on Computer Applications in Design and Manufacturing



Posing with certificates of HTML Workshop

#### Field Visits

On an average, a student makes 15 industrial visits during his 4 year study programme.



Field visit on soil investigation



Field visit to Varun Beverages



Field visit to Siemens



Field visit to NIO

### Projects

Students have undertaken and successfully completed projects for companies such as Sandbox Infotech, Water Resources Department, to name a few. Students are doing their final year projects with Persistent Systems Ltd, NCAOR, Netzsch Technologies and other reputed organizations.



Students explaining a Hydraulic Crane



Students from other Institutions visiting the Science Exhibition

### Internships



### Student Associations

Student chapters of ISHRAE (Indian Society of Heating, Refrigeration and Air-conditioning Engineers) and CSI (Computer Society of India) have been set up at the college.



### Sports and Cultural Activities

The students' council organises an annual cultural festival entitled, 'Procyon' that promotes the singing, acting, dancing, and other talents of the students. Fresher's day, teacher's day, the feast of Don Bosco and many such occasions are celebrated. The students also participate in inter-collegiate events and other competitions like the Students' Parliament, Ghumat Arti, besides others. The Sports Day is also an annual feature at Don Bosco College of Engineering. The students also participate in inter-collegiate games at Goa University. The college has a first to its credit in terms of being the first professional college in Goa to have a NSS Unit. The NSS Unit regularly organises Blood Donation Camps, Cleanliness Drives and other activities for the benefit of society.

The students literary and artistic talents are reflected in the annual students' magazine, 'BEACON - Shine like the whole universe is yours.'



Volleyball match in progress



NSS Blood Donation Rally



Dance performance at Annual Day 2014



News Bulletin



Student Magazine

### Faculty Development

Knowledge and skills of the faculty of the college needs to be continuously updated so as to be in line with the latest developments in science and technology. Knowledge and skills acquired by staff of the college will percolate down to the students. Keeping this in mind, the college lays emphasis on faculty development. Faculty are encouraged to pursue higher studies. At present, nine faculty of the college are pursuing the doctoral programme (Ph.D.) in various disciplines. The college invites experts from the industry as well as academia for workshops and seminars for teaching as well as non-teaching staff that are conducted in our college. Faculty attend workshops and seminars being conducted by other organizations.

## Governing Council

- Chairman : Rev Fr. Ian Figueiredo, Provincial, Province of Panjim-Konkan
- Members : Fr. Paul D' Souza, Vice Provincial, Province of Panjim-Konkan
- : Fr. Allwyn D' Souza, Economist, Province of Panjim-Konkan
- : Fr. Kinley D' Cruz, Director, Don Bosco College of Engineering
- : Fr. Julius Rasquinha, Administrator, Don Bosco College of Engineering
- : Fr. Tony Alemao, Don Bosco College of Engineering
- : Mr. Jose M. Noronha, CEO, Agnel Technical Education Complex
- : Mr. Hilary D' Souza, Global Unit Head, (Facilities & Operations), Mercury Pharma Services
- : Mr. Blaise Costabir, Managing Director, GMI Zarhak Moulders Pvt. Ltd.
- Nominee of AICTE : Regional Officer, WRO, AICTE, Mumbai
- Nominee of Goa University : Registrar or his representative
- Nominee of Govt : Director of Technical Education, Goa
- Member Secretary : Dr. C. S. Gokhale, Principal, Don Bosco College of Engineering

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