

# Don Bosco College of Engineering

Fatorda, Goa

*(Approved by AICTE, Affiliated to Goa University)*



## MANDATORY DISCLOSURE

2024-2025

**1. NAME OF THE INSTITUTION**

<b>Name of the Institution</b>	<b>Don Bosco College of Engineering</b>
<b>Address of the Institution</b>	Fatorda, Margao, Goa, India - 403602
<b>Telephone Number with STD Code</b>	(0832) 2744111/2744112
<b>Website</b>	<a href="http://www.dbcegoa.ac.in">www.dbcegoa.ac.in</a>
<b>Email</b>	dbcefatorda@dbcegoa.ac.in

**2. NAME AND ADDRESS OF THE TRUST/ SOCIETY/ COMPANY AND THE TRUSTEES**

<b>Name of the Trust</b>	<b>The Fatorda Salesians Society</b>
<b>Address of the Trust</b>	Fatorda, Margao, Goa, India - 403602
<b>Telephone</b>	(0832)2744111/2744112

**3. NAME AND ADDRESS OF THE VICE CHANCELLOR/ PRINCIPAL/ DIRECTOR**

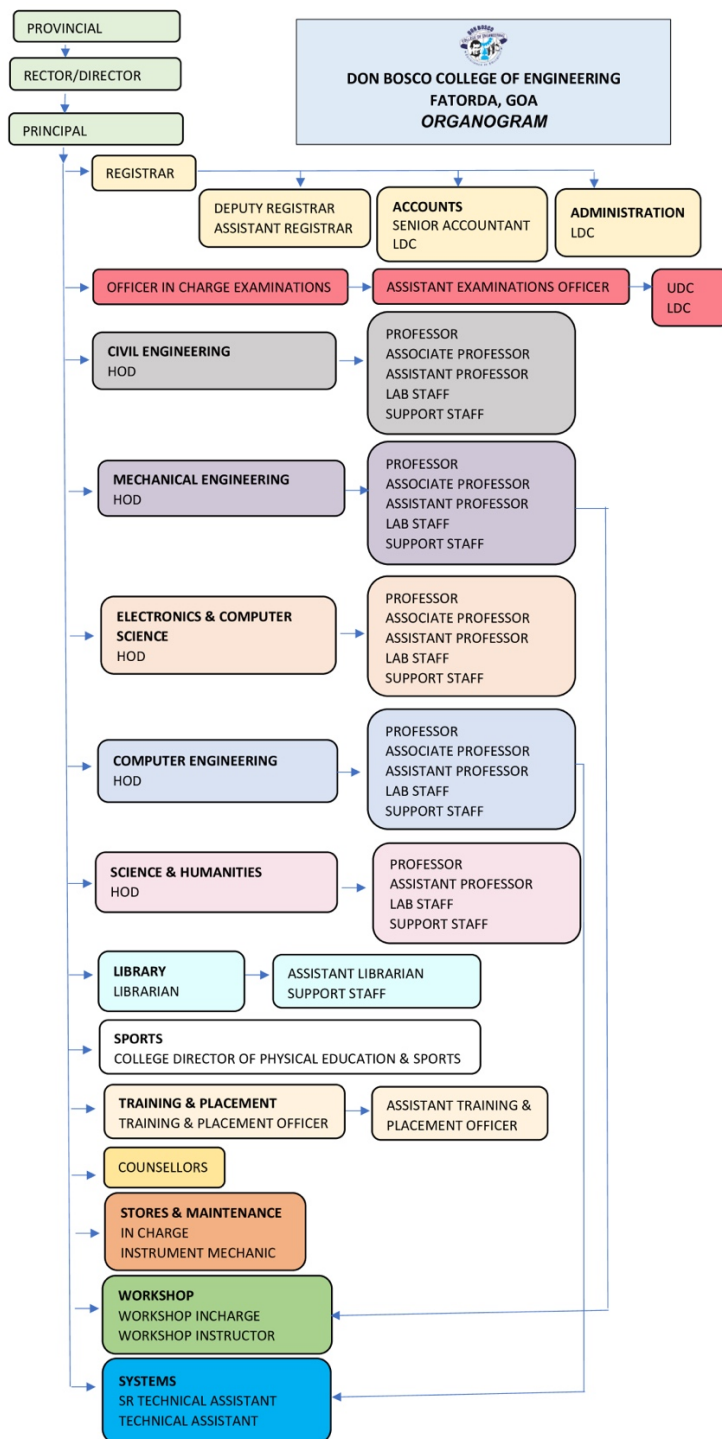
<b>Fr. Kinley D’Cruz</b>	<b>Dr. Neena Panandikar</b>
Director	Principal
Fatorda, Margao – Goa 403206	Fatorda, Margao – Goa 403206
Tel No.: (0832)2744111/2744112	Tel No.: (0832)2744111/2744112
E-mail: director@dbcegoa.ac.in	E-mail: principal@dbcegoa.ac.in

**4. NAME OF THE AFFILIATING UNIVERSITY**

<b>Name of the Affiliating University</b>	<b>Goa University</b>
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5. GOVERNANCE

i. ORGANIZATIONAL CHART



**BOARD OF GOVERNORS**

<b>Name &amp; Designation</b>	<b>Affiliation</b>	<b>Membership</b>
Fr. Clive Telles Provincial	Province of Panjim – Konkan	Chairman
Fr. Kinley D'Cruz Director	Don Bosco College of Engineering	Director (Nominee of Chairman)
Fr. Banzelao Teixeira Vice Provincial	Province of Panjim – Konkan	Member
Fr. Francis Silveira Economer	Province of Panjim – Konkan	Member
Fr. Ralin De Souza Rector	Don Bosco College of Engineering	Member
Fr. Leo Pereira Administrator	Don Bosco College of Engineering	Member
Mr. Atul Naik Industrialist	Precitech Components, Margao, Goa	Member
Mr. Pranay Gupta Industrialist	91, Springboard, Panaji, Goa	Member
Dr. Mridula Goel Educationist	BITS Pilani, Goa	Member
Mr. Ajit Salunke Associate Professor	Don Bosco College of Engineering	Member
Mr. Harison John Cota Assistant Professor	Don Bosco College of Engineering	Member
Regional Officer	WRO, AICTE, Mumbai	Member
Prof. R. V. Pai Dean, School of Physical & Applied Sciences	Goa University	Nominee of Goa University
Dr. Vivek Kamat Director, DTE	Directorate of Technical Education, Goa	Nominee of Government
Dr. Neena Panandikar Principal	Don Bosco College of Engineering	Secretary

**ACADEMIC ADVISORY BOARD****CIVIL ENGINEERING**

Dr. Shwetha Prasanna HOD, Civil Engineering, Don Bosco College of Engineering	Chairperson
Mr. B. R. Aniruddha Assistant Professor, Civil Engineering, Don Bosco College of Engineering	Internal Member
Mr. Dattaprasad J.S. Borkar Rtd. Principal Chief Engineer, PWD, Goa	External Member-Industry
Mr. Arman Bankley Director, Armines Group of Companies	External Member-Industry
Mr. D.S. Prashant FiiRE, Forum for Innovation Incubation Research and Entrepreneurship	External Member-Industry

Mr. Chandrashekhar Prabhudessai Consultant - Chandrashekhar Prabhudessai & Associates	External Member-Industry
Mr. Joseph Silvera Rtd. Chief Engineer, Marmagoa Port Trust	External Member-Industry
Mr. Subhash C. Yaragal Academics, Dean Planning and Development & Professor, NIT Surathkal	External Member-Academics
Ms. Prachi Dessai Assistant Professor, Civil Engineering, Don Bosco College of Engineering	Member Secretary
<b>MECHANICAL ENGINEERING</b>	
Dr. Pravin Verekar HOD, Mechanical Engineering, Don Bosco College of Engineering	Chairperson
Mr. Gautam Raj General Manager, MRF Ltd., Usgaon Industrial Estate, Goa	External Member-Industry
Mr. Nilesh Dessai Chief Manufacturing Officer & Unit Head, Paradeep Phosphates Limited (Goa Unit)	External Member-Industry
Mr. Sachin Mirajkar Director - Operations, Netzsch Technologies India Pvt. Ltd., Verna Industrial Estate, Goa	External Member-Industry
Mr. Prasad Adpaikar Manager - Engineering, Sanofi Healthcare India Pvt. Ltd., Verna Industrial Estate Verna Industrial Estate, Goa	External Member-Industry
Dr. Jaganath Hirkude Professor, Department of Mechanical Engineering, Goa Engineering College	External Member-Academics
Dr. Anirudha Ambekar Assistant Professor, School of Mechanical Sciences, IIT Goa	External Member-Academics
Mr. Ajit Salunke Associate Professor, Mechanical Engineering, Don Bosco College of Engineering	Internal Member
Mr. Avil D'Sa Assistant Professor, Mechanical Engineering, Don Bosco College of Engineering	Member Secretary
<b>ELECTRONICS &amp; COMPUTER SCIENCE</b>	
Dr. Vidhya D S, HOD, ECS, Don Bosco College of Engineering	Chairperson
Mr. Abhijit Tamba Proprietor, EME Automation, Goa	External Member-Industry

Mr. Malcolm D'Souza Co-founder and CTO, Mring Technologies, Margao	External Member-Industry
Mr. D.S. Prashant FiiRE, Forum for Innovation Incubation Research and Entrepreneurship, Fatorda	External Member-Industry
Dr. Yogesh Agarwadkar Director, Infi - Corridor Solution Pvt. Ltd., Mumbai	External Member-Industry
Dr. Nithin Kumar Y.B Associative Professor, Electronics and Communication Engg. Dept, NIT Goa	External Member-Academics
Dr. Hasan Ali Virani HOD ETC, Goa Engineering College, Goa	External Member-Academics
Ms. Kimberly Moraes Assistant Professor, ECS, Don Bosco College of Engineering	Member Secretary
<b>COMPUTER ENGINEERING</b>	
Dr. Gaurang Patkar HOD, Computer Engineering, Don Bosco College of Engineering	Chairperson
Mr. Kishore Shah Director, Idea Unlimited	External Member-Industry
Mr. Gaurav Ghelani Academic Relationship Manager, Tata Consultancy Services	External Member-Industry
Mr. Shravan Hegde Chief Technical Officer, Contractzy	Invited Member - Industry
Dr. Aisha Fernandes Associate Professor, Department of Computer Engineering, Goa Engineering College	External Member-Academics
Dr. Amrita Naik Assistant Professor, Computer Engineering, Don Bosco College of Engineering	Member Secretary

Frequency of the Board of Governors Meeting: 01 meeting per academic year

Frequency of Academic Advisory Body Meeting: 01 meeting per academic year

Additional meetings are conducted if required.

## ii. GRIEVANCE REDRESSAL MECHANISM FOR FACULTY, STAFF AND STUDENTS

The Grievance Redressal Committee is formed to register the grievances of the students, teaching and non-teaching staff. A Complaint Register kept in the office of the Director. On

receipt of the complaint, it is reported to the Chairperson of the Grievance Redressal Committee. The Committee will meet and investigate the information provided by the complainant. Any aggrieved student or parent may appear in person to present the case. The Grievance Redressal Committee shall conduct an enquiry to find the nature and extent of the grievance. The committee shall suggest the steps to be started at the level of the Institute. The redressal / final action will be taken by the principal. The complaint can be registered online on the link provided on the college website.

### iii. ESTABLISHMENT OF ANTI RAGGING COMMITTEE

ANTI RAGGING COMMITTEE	
Members	Designation
Dr. Neena S. P. Panandikar Chairperson	Principal Don Bosco College of Engineering
Mr. Uday Prabhudessai Member	Additional Collector - II South Goa Salcete, Margao, Goa
Mr. Nathan De Almeida Member	Police Inspector Fatorda Police Station
Mr. Diana Fernandes Member	Reporter The Navhind Times
Mr. Radharao Gracias Member	Advocate
Mr. Ajit Salunke Member	Associate Professor Mechanical Engineering, Don Bosco College of Engineering
Ms. Vaishali R. Parakhi Member	Assistant Professor Science & Humanities, Don Bosco College of Engineering
Mrs. Merlyn Noronha Parent 1	Lab Assistant Our lady of Rosary HSS, Dona Paula
Mr. Teotone Vaz Parent 2	Principal G. V. M's College of Commerce and Economics, Farmagudi, Ponda, Goa
Mr. Danien Fernandes Fresher 1	FE Student Mechanical Engineering, Don Bosco College of Engineering
Ms. Chelsea Vaz Fresher 2	FE Student Computer Engineering, Don Bosco College of Engineering
Mr. Arya A. Naik Senior Student 1	BE Student Mechanical Engineering, Don Bosco College of Engineering
Mr. Vedant Gad Senior Student 2	BE Student

	Computer Engineering, Don Bosco College of Engineering
Mr. Varin Castello Senior Student 3	BE Student ETC Engineering, Don Bosco College of Engineering
Ms. Veronica Fernandes Member	Assistant Registrar Don Bosco College of Engineering
Mr. Clifford Britto Member	College Director of Physical Education and Sports Don Bosco College of Engineering

#### iv. ESTABLISHMENT OF ONLINE GRIEVANCE REDRESSAL MECHANISM

Any stakeholder may register the grievance online on the link provided on the institute website.

<https://docs.google.com/forms/d/e/1FAIpQLSeZl8t-j0m0xBtkfgwNf3biecHNJEydQTLyt9AqePOCAKOzBg/viewform>

#### v. DETAILS OF GRIEVANCE REDRESSAL COMMITTEE IN THE INSTITUTION

STUDENT GRIEVANCE REDRESSAL COMMITTEE	
Members	Designation
Dr. Neena S. P. Panandikar Chairperson	Principal Don Bosco College of Engineering
Dr. Shwetha P. Member	Associate Professor Civil Engineering
Dr. Gaurang Patkar Member	Associate Professor Computer Engineering
Ms. Mathilda Colaco Member	Assistant Professor Electronics & Computer Science
Mr. Om Mahanand Parab Member	Student representative – Special Invitee

STAFF GRIEVANCE REDRESSAL COMMITTEE	
Members	Designation
Dr. Neena S. P. Panandikar Chairperson	Principal Don Bosco College of Engineering
Dr. K. S. Bhat Member	Associate Professor Goa University
Dr. D. S. Vidhya Member	Associate Professor Electronics & Computer Science
Mr. Ajit Salunke Member	Associate Professor Mechanical Engineering

#### vi. ESTABLISHMENT OF INTERNAL COMMITTEE (IC)



<b>INTERNAL COMMITTEE</b>	
<b>Members</b>	<b>Designation</b>
Dr. Shwetha P. Chairperson	Associate Professor Civil Engineering
Ms. Vaishali Parakhi Member	Assistant Professor Science & Humanities
Ms. Anisha Cotta Member	Assistant Professor Electronics & Computer Science
Ms. Manisha Fal Dessai Member	Assistant Professor Computer Engineering
Ms. Starina J. Dias Member	Assistant Professor Civil Engineering
Ms. Elaine Dias Member	Counsellor
Ms. Famina Fernandes Member	LDC
Ms. Auda Viegas Member	Women Activist, NGO – Bailancho Saad
Mr. Joseph Makkimane Member	Student
Ms. Sanika Yeshwant Desai Member	Student
Ms. Clarita Theresa Liane De Souza Member	Student

#### **vii. ESTABLISHMENT OF COMMITTEE FOR SC/ST**

<b>SC/ST COMMITTEE</b>	
<b>Members</b>	<b>Designation</b>
Dr. Neena S. P. Panandikar Chairperson	Principal
Mr. Satyesh Kakodkar Member	Assistant Professor Civil Engineering
Ms. Anisha Cotta Member	Assistant Professor Electronics & Computer Science
Ms. Mathilda Colaco Member	Assistant Professor Electronics & Computer Science
Mr. Norman Dias Member	Assistant Professor Computer Engineering
Mr. Sachin Turi Member	Assistant Professor Mechanical Engineering
Ms. Edlina Salema Member	LDC
Ms. Samprita B. Ghadi Member	Laboratory Assistant

#### **viii. INTERNAL QUALITY ASSURANCE CELL**

<b>INTERNAL QUALITY ASSURANCE CELL</b>	
<b>Members</b>	<b>Designation</b>
Dr. Neena S. P. Panandikar Chairperson	Principal
Fr. Ralin De Souza Member	Rector, Fatorda Salesian Society
Mr. Savio Carvalho Member	Director, Turbocam India Pvt. Ltd.
Dr. Kala R Nayak Member	Professor, Head of Science & Humanities
Dr. D. S. Vidhya Member	Associate Professor, Head of Electronics & Computer Science
Mr. Ajit Salunke Coordinator	Associate Professor, Head of Mechanical Engineering
Dr. Shwetha P. Member	Associate Professor, Head of Civil Engineering
Dr. Gaurang Patkar Member	Associate Professor, Head of Computer Engineering
Mr. Harison Cota Member	Assistant Professor, Science & Humanities
Ms. Avila S. Naik Member	Training & Placement Officer, T & P Cell
Mr. Ronan Chris Mendes Member	Student, Third Year, Computer Engineering, DBCE
Mr. Shwetang Nadkarni Member	Alumnus, Civil Engineering, DBCE

#### ix. EQUAL OPPORTUNITY FACILITIES CELL

<b>EQUAL OPPORTUNITY FACILITIES CELL</b>	
<b>Members</b>	<b>Designation</b>
Mr. Jeffrey Valadares Senior Faculty Nodal Officer / Coordinator	Senior Faculty
Mr. Yeshudas Muttu Member	Faculty
Ms. Teena Mascarenhas e Braganza Member	Non-teaching Staff
Ms. Ananya Sawant Member	Student
Mr. Raghu Duth Degala Founder, TheGoodTalkFactory (NPO) Member	Representative of NGO working in the areas of PWDs
Mr. Nevil Soares Deputy Registrar, Administration Member Secretary	Admin Officer

## 6. PROGRAMMES

### i. NAME OF THE PROGRAMMES APPROVED BY AICTE

<b>Bachelor of Engineering (BE)</b>	Mechanical Engineering Civil Engineering Electronics & Computer Science Computer Engineering
<b>Master of Engineering (ME)</b>	Computer Aided Structural Engineering (Civil) Data Sciences (Computer)

### ii. NAME OF THE PROGRAMMES ACCREDITED BY NBA

<b>Bachelor of Engineering (BE)</b>	Mechanical Engineering Civil Engineering Electronics & Telecommunication Engineering Computer Engineering
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### iii. STATUS OF ACCREDITATION OF THE COURSES

<b>Civil Engineering Mechanical Engineering ETC Engineering</b>	Accredited till 2025
<b>Computer Engineering</b>	Accredited till 2026

### iv. TOTAL NUMBER OF COURSES

<b>Bachelor of Engineering (BE)</b>	04
<b>Master of Engineering (ME)</b>	02

### v. PROGRAMME DETAILS

BE PROGRAMME					
a	b	c	d		
Name	Number of Seats	Duration	Cut off Marks/Rank of admission during last years		
			2023-2024	2022-2023	2021-2022
Civil Engineering	60	4 years	GCET Rank:1844	GCET Rank:1502	GCET Rank:1392
Mechanical Engineering	60	4 years	GCET Rank:1850	GCET Rank:1466	GCET Rank:1461
Electronics & Computer	60	4 years	GCET	GCET	NA

Science			Rank:1576	Rank:1094	
Computer Engineering	90	4 years	GCET Rank:1098	GCET Rank:377	GCET Rank:527

ME PROGRAMME			
a	b	c	d
Name	Number of Seats	Duration	Cut off Marks/Rank of admission during last years 2023-2024
Computer Aided Structural Engineering (Civil)	18	2 years	56.48%
Data Sciences (Computer)	18	2 years	In process

#### vi. FEE (As approved by the State Government)

Fee details as approved by the State Government

<b>BE</b>	<a href="https://dbcegoa.ac.in/wp-content/uploads/2023/08/DBCE_UG_Fee-Structure_2023-2024.pdf">https://dbcegoa.ac.in/wp-content/uploads/2023/08/DBCE_UG_Fee-Structure_2023-2024.pdf</a>
<b>ME</b>	<a href="https://dbcegoa.ac.in/wp-content/uploads/2023/08/DBCE_PG_Fee-Structure_2023-2024.pdf">https://dbcegoa.ac.in/wp-content/uploads/2023/08/DBCE_PG_Fee-Structure_2023-2024.pdf</a>

## 7. FACULTY

CIVIL ENGINEERING	
Faculty Members List	<a href="https://civil.dbcegoa.ac.in/faculty/">https://civil.dbcegoa.ac.in/faculty/</a>
Faculty Members List	<a href="https://mech.dbcegoa.ac.in/faculty/">https://mech.dbcegoa.ac.in/faculty/</a>
Faculty Members List	<a href="https://etc.dbcegoa.ac.in/faculty/">https://etc.dbcegoa.ac.in/faculty/</a>
Faculty Members List	<a href="https://comp.dbcegoa.ac.in/faculty/">https://comp.dbcegoa.ac.in/faculty/</a>
Permanent Faculty	51
Adjunct Faculty	Nil
Permanent Faculty: Student Ratio	1:20

## 8. PROFILE OF THE PRINCIPAL

<b>Dr. Neena S. P. Panandikar</b> Principal	<a href="http://dbcegoa.ac.in/principal-profile/">http://dbcegoa.ac.in/principal-profile/</a>
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## 9. FEE

i.	No. of Fee waivers granted with amount and name of students	TFW: 54
ii.	Number of scholarships offered by the Institution, duration, and amount	Number of scholarships offered: 7 Duration: Yearly Amount (Approx.): Rs. 3,70,000.00

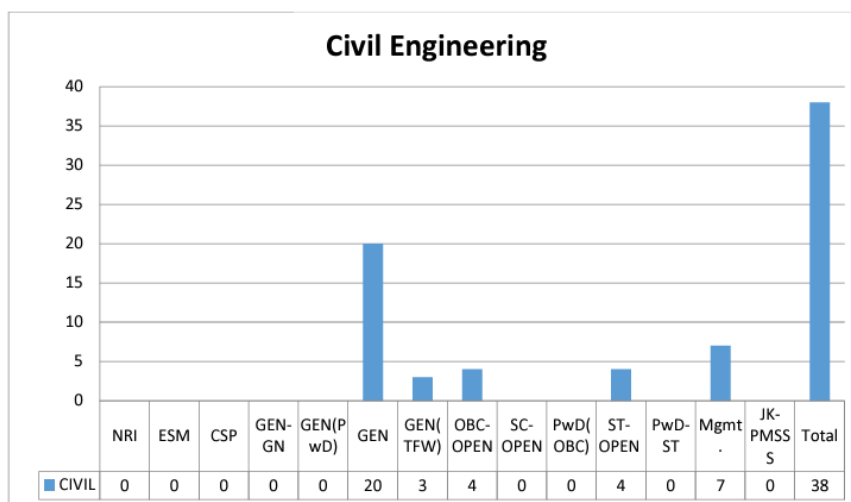
## 10. ADMISSION

## i. NUMBER OF SEATS SANCTIONED WITH THE YEAR OF APPROVAL

Name of the Course	Year of Start	Intake	Increase in intake if any	Year of increase
<b>BE Programme</b>				
Civil Engineering	2011	60	Nil	Nil
Mechanical Engineering	2011	60	60-120	2018
Electronics & Computer Science	2022	60	Nil	Nil
Computer Engineering	2011	60	60-90	2023
<b>ME Programme</b>				
Computer Aided Structural Engineering (Civil)	2022	18	NA	NA
Data Sciences (Computer)	2023	18	NA	NA

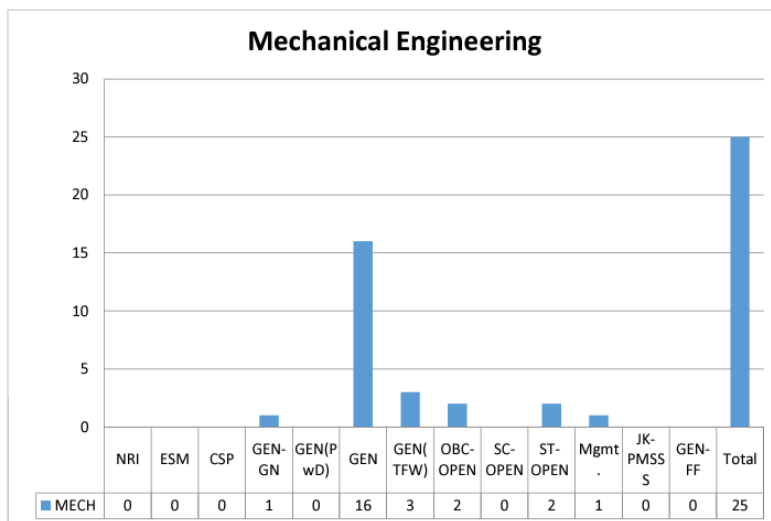
## ii. NUMBER OF STUDENTS ADMITTED UNDER VARIOUS CATEGORIES EACH YEAR IN THE LAST THREE YEARS

## 2023-2024 CIVIL ENGINEERING



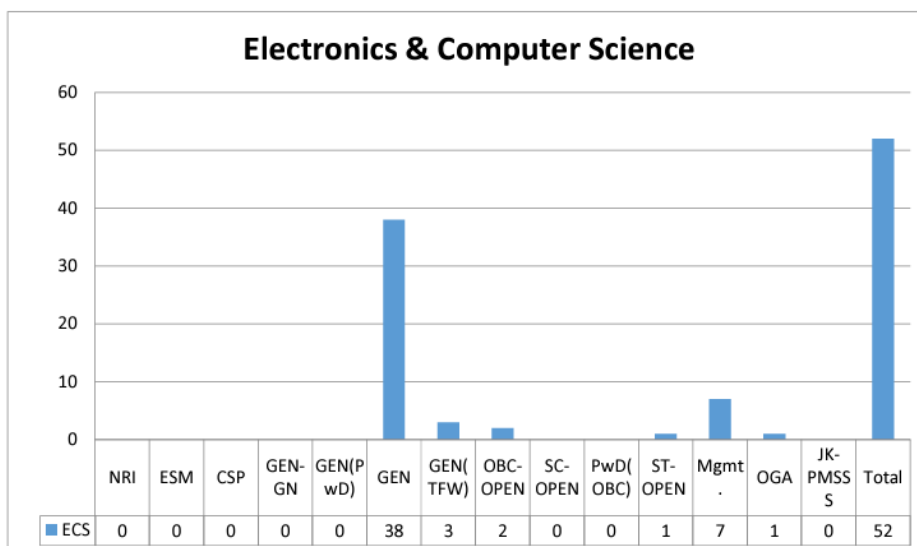
MOHAMMAD SAAD KANIKYNAVAR	TFW
OMKAR VENKATESH GURAV	TFW
PRATIK SANDIP DESAI	TFW

2023-2024 MECHANICAL ENGINEERING



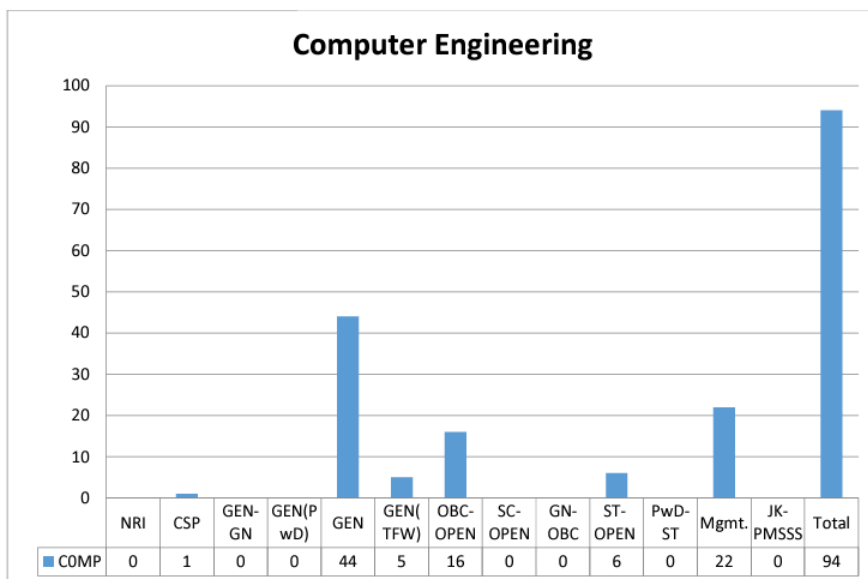
MAZEN RIAN BENELON LEITAO	TFW
DENZIL GODINHO	TFW
AGNELO CYRUS DIAS	TFW

2023-2024 ELECTRONICS & COMPUTER SCIENCE



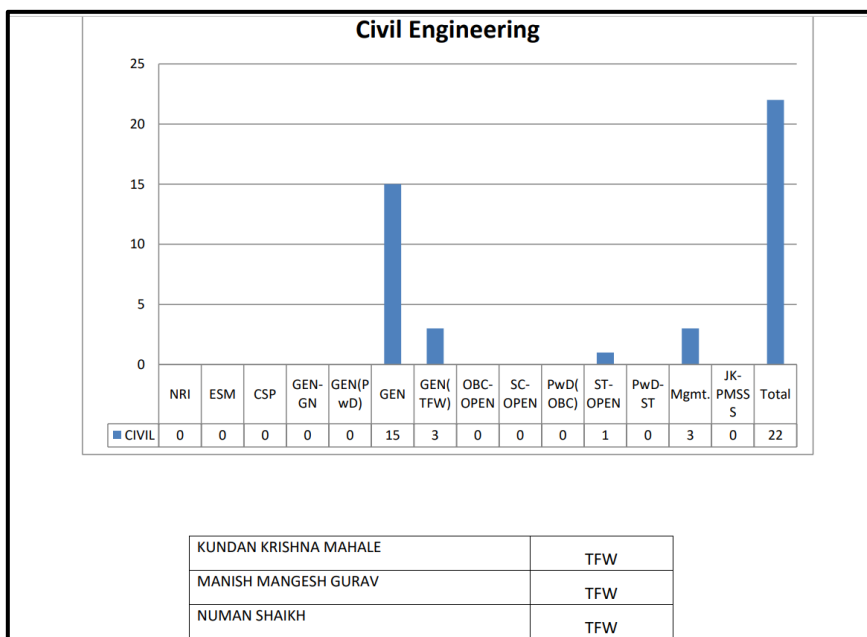
VALLAN ROQUE MASCARENHAS	TFW
ELIVIA SWEEMA SILVA	TFW
AVINASH SAINATH ACHARI	TFW

2023-2024 COMPUTER ENGINEERING



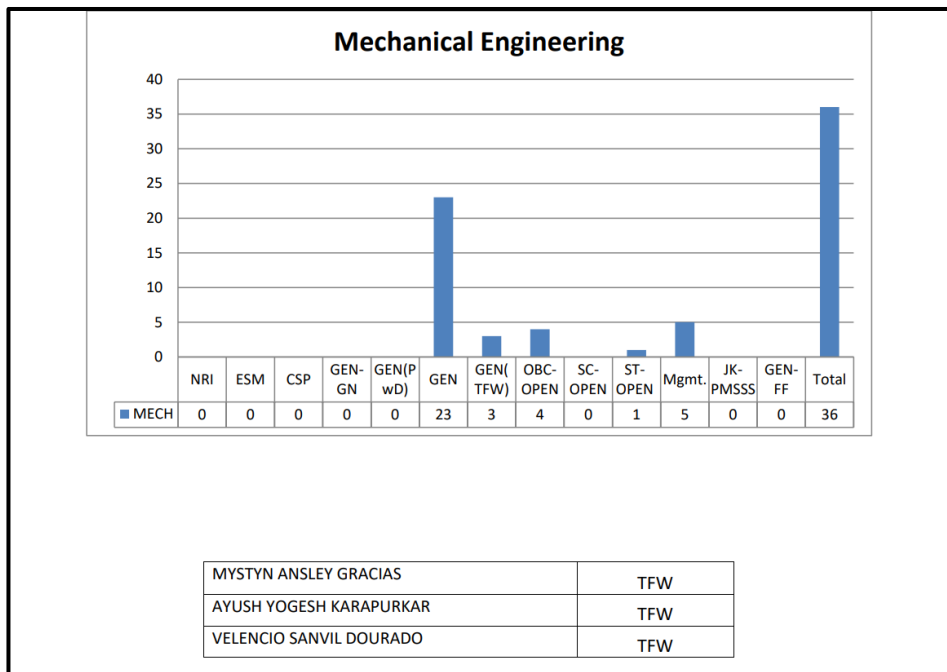
AMAN ASHOK PAINGINKAR	TFW
ATHARV ARJUN BATULE	TFW
HAYDEN CASSIANO FERNANDES	TFW
SHIVASHARANAPPA BIRADAR	TFW
NIHIRA PRITIDAS LOTLIKER	TFW

2022-2023 CIVIL ENGINEERING

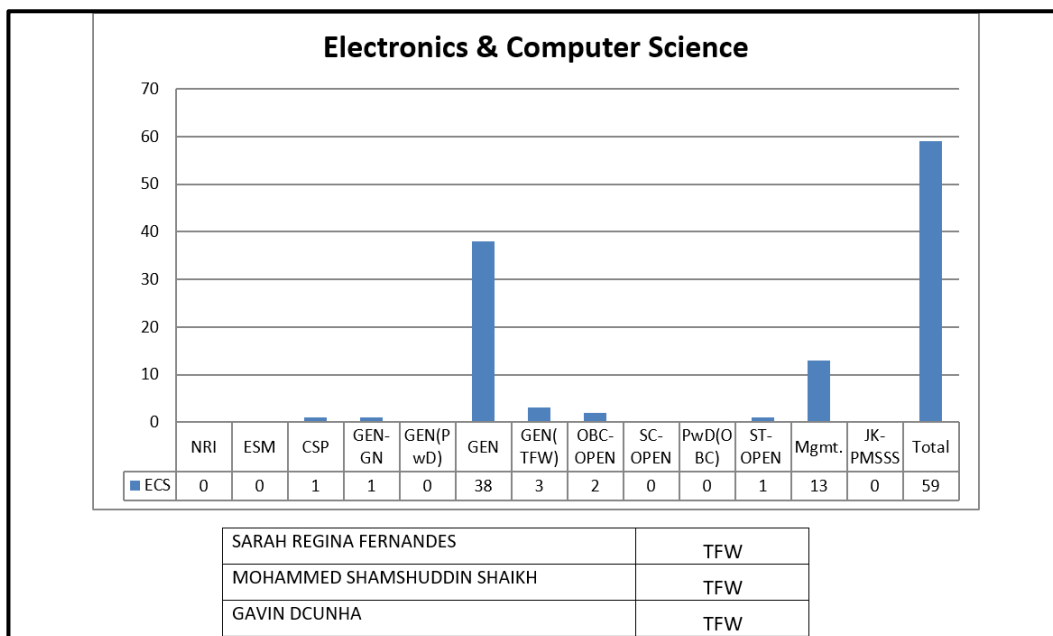


KUNDAN KRISHNA MAHALE	TFW
MANISH MANGESH GURAV	TFW
NUMAN SHAIKH	TFW

2022-2023 MECHANICAL ENGINEERING

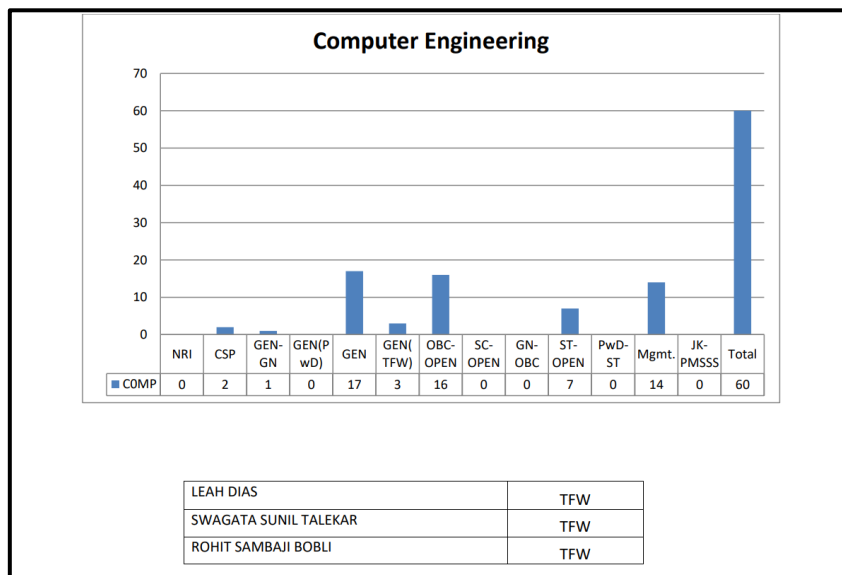


2022-2023 ELECTRONICS & COMPUTER SCIENCE

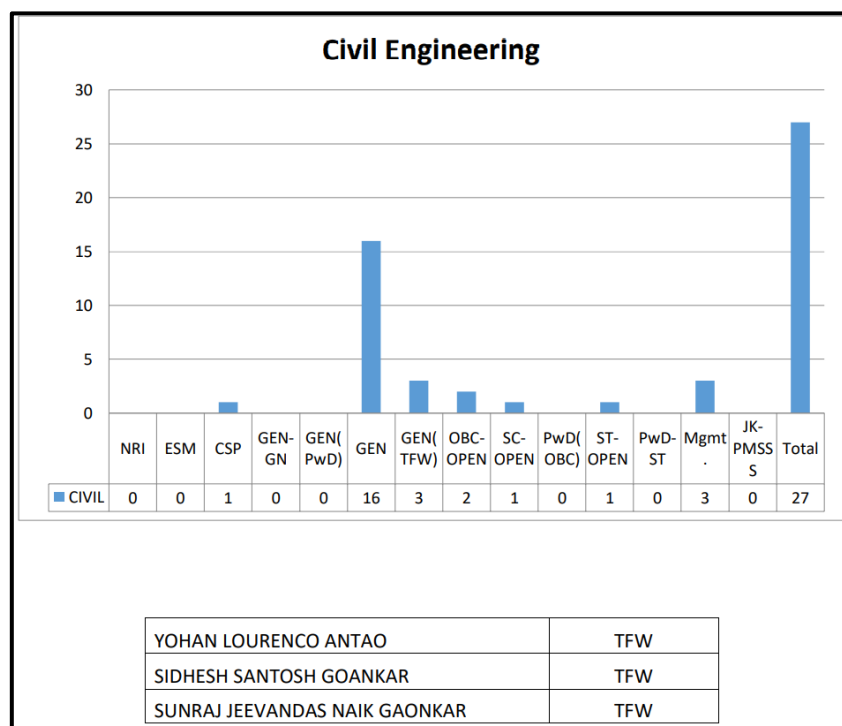




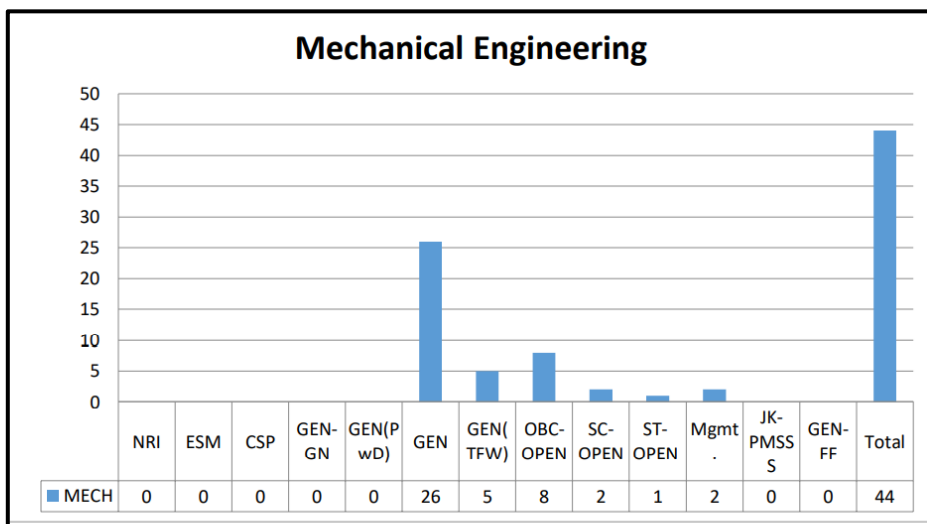
2022-2023 COMPUTER ENGINEERING



2021-2022 CIVIL ENGINEERING

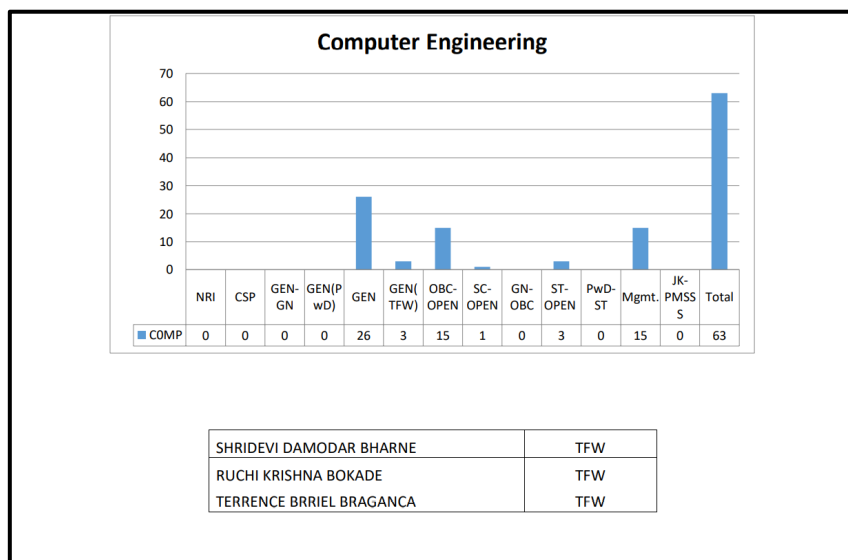


2021-2022 MECHANICAL ENGINEERING



IGNATIUS JONAS BENSON DSILVA	TFW
NOLAN NOEL GOES	TFW
YASH ATISH KURADE	TFW
MOHAMMAD IMRAN SUHEL	TFW
AARON ANTONIO RODRIGUES	TFW

2021-2022 COMPUTER ENGINEERING



SHRIDEVI DAMODAR BHARNE	TFW
RUCHI KRISHNA BOKADE	TFW
TERRENCE BRRIEL BRAGANCA	TFW

## 11. ADMISSION PROCEDURE

### i. MENTION THE ADMISSION TEST BEING FOLLOWED, NAME AND ADDRESS OF THE TEST AGENCY AND ITS URL (WEBSITE)

State admissions through Joint Entrance Examination JEE (Main) – 2024, conducted by National Testing Agency (NTA), Department of Higher Education, <https://jeemain.nta.ac.in/>

### ii. NUMBER OF SEATS ALLOTTED TO DIFFERENT TEST QUALIFIED CANDIDATE SEPARATELY (AIEEE/ JEE/ CET (State conducted test/ University tests/ CMAT)/ Association conducted test etc.)

DTE Goa Prospectus: <https://dte.goa.gov.in/sites/default/files/degprosp2024.pdf>

### iii. CALENDAR FOR ADMISSION AGAINST MANAGEMENT QUOTA SEATS

Admission Calendar is issued by Directorate of Technical Education (DTE) Goa.

## 12. CRITERIA AND WEIGHTAGES FOR ADMISSION

Admission criteria and weightages are as per the DTE Prospectus: <https://dte.goa.gov.in/sites/default/files/degprosp2024.pdf>

## 13. LIST OF APPLICANTS

List of candidates whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats.

*(Admission in process)*

## 15. INFORMATION OF INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE

i.	Number of Classrooms and size of each	<b>17 Classrooms:</b> 11 classrooms of 88 sq.m. 4 classrooms of 94 sq.m. 2 classrooms of 92 sq.m.
ii.	Number of Tutorial rooms and size of each	<b>4 Tutorial rooms:</b> 3 Tutorial rooms of 88 sq.m. 1 Tutorial room of 58 sq.m.
iii.	Number of Laboratories and size of each	33 with adequate area 1 Research Lab

iv.	Number of Computer Centers with capacity of each	1 with adequate area
v.	Central Examination Facility, Number of rooms and capacity of each	17 classrooms, 4 Tutorial rooms, 1 additional hall with adequate area, 1 Exam Center
vi.	Online examination facility, Number of Nodes, Internet band width, etc.	Yes
vii.	Barrier Free Built Environment for disabled and elderly persons	Yes
viii.	Fire and Safety Certificate	Yes
ix.	Hostel Facilities	No
x.	Number of Library books/ Titles/ Journals available (program-wise)	Library Books Titles: 2019 Volumes: 12999 Journals: 48
xi.	List of online National/ International Journals subscribed	Science Direct: 296
xii.	National Digital Library (NDL) subscription details	NDLI Club: Don Bosco College of Engineering, Goa Registration Number: INGANCVYFCDUKLI Date of Registration: 26/03/2021 Valid Up to: 26/03/2025 Registered Users (Club): 910 27 HCL Systems: Gigabyte G31 M Motherboard, Intel Dual core 2.70 GHZ, 2 GB RAM Ddrii, DVD Writer, Hard Disk 320 GB
xiii.	List of Major Equipment/Facilities in each Laboratory/Workshop	
	<b>CIVIL ENGINEERING</b>	
	<p><b>Surveying Lab</b> Major Equipment: Dumpy Level with stand, Auto level with stand, Tacheometer with stand, Prismatic compass with tripod 125mm, Plane table, Total Station, Handheld GPS</p> <p><b>Strength of Material</b> Major Equipment: Universal testing machine 100 T, Impact testing machine, Single Disk Polishing Machine, Magnetic Flaw Detection Kit</p> <p><b>Concrete Technology</b> Major Equipment: Concrete compression testing machine 200 T, Compaction factor apparatus, Sieve shaker motorized, Rebound hammer, Vicate Apparatus, Slump cone Accelerated Curing Tank, Vibration Table, E Platform Balance 100 kg, Pan Mixer, Pundit Lab Pulse Ultrasonic Testing Instrument, Profometer 650AI, Silver Schmidt live OS8200 N (Digital rebound hammer)</p> <p><b>Fluid Mechanics</b> Bernoulli's theorem apparatus, Orifice meter, Venturi meter, Rotameter, Pipe friction apparatus, Reynold's apparatus, Tilting flume</p> <p><b>Transportation Engineering</b> Softening Point Test Apparatus, Standard Penetration Apparatus, Apparatus to measure Impact Value, Los Angeles Abrasion test apparatus, California Bearing Ratio</p>	

Test Apparatus, Ductility Apparatus, Aggregate crushing value test apparatus, Viscosity meter, Flash and fire point Apparatus

#### **CAD/CAM**

MIDAS software, AutoCAD 125 users, Estima

#### **Geotechnical Engineering**

Standard Proctor with rammer complete set, Direct Shear Apparatus, Permeability test apparatus, Liquid Limit test apparatus, Vane shear test apparatus, Consolidation Apparatus, Unconfined Compression Test Apparatus, Electric oven 250 x 450 x 450 mm

#### **Environmental Engineering**

Flocculator, pH meter, electrode table, Magnetic stirrer with hot plate, Turbidity meter, BOD incubator, Electric hot air oven, COD digester, Single distillation unit, Muffle Furnace

### **MECHANICAL ENGINEERING**

#### **Basic Mechanical Engineering Laboratory**

Model of Babcock & Wilcox Boiler, Model of Lancashire Boiler, Vertical Water tube boiler, Model of Valox Boiler, Pelton turbine model, Francis turbine model, Working Model of 2 stroke petrol engine, Working Model of 2 stroke diesel engine, Working Model of 4 stroke petrol engine, Working Model of 4 stroke diesel engine, Cut section model of 4 stroke diesel engine for valve timing, Cut section model of 2 stroke petrol engine for port timing

#### **IC Engine Laboratory Theory of Machines**

2 Stroke 1 cylinder petrol engine test rig w/ eddy current, 4 Stroke 1 cylinder diesel engine test rig w/electric loading, 4 Stroke 1 cylinder petrol engine test rig w/electric loading, Mini air conditioning Test rig, Gas emission analyzer, Variable compression ratio 1 cylinder, 4 stroke diesel engine with mechanical loading, Universal Governor Apparatus, Motorised Gyroscope, Static and Dynamic Apparatus, Universal Vibration Apparatus

#### **Heat & Mass Transfer**

Thermal Conductivity of Insulating Powder, Heat transfer from a pin apparatus, Stefan Boltzmann Apparatus, Hydraulics Machines, Reciprocating Pump Test Rig (Constant speed), Pelton Wheel Turbine Test rig with 5 HP Kirloskar motor, Centrifugal pump test rig-variable speed, single stage with 1 HP PMDC motor & speed controller unit, Centrifugal Blower Test Rig, Single stage Reciprocating compressor Test Rig, Apparatus to study metacentric height of ship

#### **Mechatronics**

PLC Trainer kit, Temperature control trainer (SCADA), Pressure control trainer (SCADA), Control valve characteristics, Lab View Full Development System, Pneumatic Trainer kit, 8051 microcontrollers, Stepper Motor Interface, Seven segment LED matrix keyboard, LabVIEW Vision Module, NI MY RIO data acquisition device

#### **Metrology**

Linear variable differential transformer, Optical Projector (Profile Projector), Strain gauge, Load cell, Floating Carriage Micrometer, Dial Indicator, Vernier height gauge, Sine bar 200 mm

#### **CAD/CAM**

ANSYS Academic Teaching Introductory Version 14.5 - ANSYS (Structural Analysis) and CFX/FLUENT (CFD analysis), Workbench (Modelling), Solidworks EDU Edition 2014-15 (Bundle), CAD+CAE+MasterCAM, 3D Printer

#### **Refrigeration & Air Conditioning**

Refrigeration Trainer, Ice Plant Tutor, Cut section of Ref. comp, Mechanical Heat Pump

#### **Automobile Laboratory**

BMW engine and transmission system, Demonstration Chassis Working with Carburetor Vehicle, Cut Model of Four Stroke Single Cylinder Petrol Engine, Cut Model of Two Stroke Single Cylinder Petrol Engine, Cut Model of Worm & Roller Type Steering Gearbox, Cut Model of Synchronous Gearbox, Cut Model of Five Speed Manual Transmission, Cut Model of Single Plate Coil Spring Clutch, Cut Model of Single Plate Diaphragm Clutch, Cut Model of Centrifugal Clutch - Honda Activa, Cut Model of Maruti Car Wiring System, Demonstration Board of Ignition System of 4-Wheeler, Cut Model of Alkaline Battery, Cut Model of Complete One Side Macpherson Suspension, Cut Model of Rotary Pump, Cut Model of Oil Pump External, Cut Model of Vacuum Pump, Cut Model of Distributor Type FIP, Cut Model of Dynamo, Model of Air Brake System Working, Cut Section Model of Maruti 800cc MPFI Engine with Gearbox, Clutch & Radiator, Cut Section Model of Single Cylinder Four Stroke Diesel Engine, Cut Section Model of Rack & Pinion Type Steering Gearbox, Cut Section Model of Power Steering, Cut Section Model of Sliding mesh Gearbox, Demonstration Board of Fuel Supply System of Petrol Engine, Demonstration Board of Fuel Supply System of Diesel Engine, Cut Section Model of Both Side Double with Bone Suspension with Drive Shaft, Mahindra 540 Diesel Engine Running Condition, Ambassador Isuzu Diesel Engine Running Condition, Cut Section Model of Inline Type FIP

#### **Material Science Laboratory**

Hardness Tester, Metallurgical Microscope, Disk Polishing Machine, Fatigue Testing Machine, Cupping Testing Machine

#### **CNC Centre**

HASS VMC 12000RPM Machine, Gedee Wheeler CNC Machine 6000RPM

#### **Research Laboratory**

NI MY RIO Data Acquisition Device, Minitab Software, 3D Printer

#### **Advanced Welding Laboratory**

TIG welding HF console with TIG cable and torch (440 V, 3 phase, 50 Hz), TPSi 320 C (Compact), Magiewave 230i along with TIG accessories, Transpocket 150 along with Welding Holder, Earth Clamp & Welding cables

### **ELECTRONICS & COMPUTER SCIENCE**

#### **Basic Electronics Engineering Laboratory**

Function Generator, CRO, DC Power Supply, Digital Storage Oscilloscope

#### **Microwave Engineering Laboratory**

CRO, Radar Trainer Kit, Function Generator, DC Power Supply, Digital Storage Oscilloscope, Microwave Test Bench, Radar Trainer

#### **Analog Electronics Laboratory**

Mobile Phone Trainer Kit, UPS Trainer KIT, Function Generator, CRO, DC Power Supply, Digital Storage Oscilloscope, Audio Amplifier Trainer Kit

#### **Digital Systems and Electronic Instrumentation Laboratory**

Digital IC Trainer, PLC trainer, Digital Storage Oscilloscope (DSO), Linear Variable Differential Trainer, Oscilloscope trainer, E-YANTRA Kits, 12 lead ECG Simulator, Electro Myograph, Encephalograph simulator, Blood pressure Measurement, Pacemaker simulator, Single channel ECG Telemetry 2359

#### **Communication Engineering Laboratory**

Frequency Modulation & Demodulation, Spectrum Analyzer, Satellite Communication Trainer, Optical Fiber Communication Kit, LAN Hardware trainer

#### **Embedded Systems Laboratory**

PIC 18F45xx Development Board, ARM 7 LPC 2148 Development Board

#### **Control and Automation Laboratory**

DC Motor- Shunt Motor, DC Series Motor, Compound Motor, Working Cut Section Motor, Repulsion Motor, AC Motor- Induction Motor, 3 Phase Slipring Induction Motor with Panel, AC Alternator, Dynamometer, Load Testing Motor Setup, DC Generator, VFD, Multimeter, Auto Transformer Single Phase, 3 Phase, VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 4GB Ram Ddr3, Hard Disk 1tb

#### **Signal Processing Laboratory**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 4GB Ram Ddr3, Hard Disk 1tb (30 in number)

#### **EDA Tools Lab**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 4GB Ram Ddr3, Hard Disk 1tb (20 in number), FPGA kit (Includes Daughter board, J Tags, Stepper/DC Motor, ADC/DAC Interface and Temp & Relay Interface as a set. 4 sets in number)

#### **Project Laboratory**

Shearing Bridge Kit, CRO, DC Power Supply, Digital Storage Oscilloscope, Analog Meter, Voltmeter Ammeter, Digital Multimeter, Tachometer, Single/3 Phase Energy Meter, Insulation Tester, Restive Load Inductive Load Kit, IC Tester, VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 4GB Ram Ddr3, Hard Disk 1tb

## **COMPUTER ENGINEERING**

#### **Basic Computing Lab**

VIP Assembled Machine: Intel Core i5-11400 (11th Gen. 2.6GHz H510M-E Prime-Asus-Motherboard, 8GB RAM DDR4, Hard Disk 240.0 GB SSD

#### **Open-Source Technology Lab**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4460 3.20 GHZ, 8GB RAM DDR III, Hard Disk 1TB/250 GB/240GB SSD

#### **Computer Network Lab**

VIP Assembled Machine: Intel DZ75ML Motherboard, Intel Core I5-3330 3.00 GHZ, 8GB RAM DDR III, Hard Disk 500GB/240GB SSD

VIP Assembled Machine: Intel DH87RL Motherboard, Intel Core I5-4570 3.20 GHZ, 8GB RAM DDR III, Hard Disk 500GB/240GB SSD

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4460 3.20 GHZ, 8GB RAM DDR III, Hard Disk 1TB/240 GB SSD

#### **Computer Graphics Lab**

VIP System: Intel DZ75ML Motherboard, Intel Core i5 3330 CPU 3.00 GHZ, 8GB RAM DDR III, Hard Disk 500GB/ 240GB SSD

#### **Database Lab**

VIP System: Intel DH87RL Motherboard, Intel Corei5 4570 CPU 3.20 GHZ, 8GB RAM DDR III, Hard Disk 500 GB/ 240GB SSD

#### **Web Technology Lab**

VIP System: Intel DH87RL Motherboard, Intel Corei5 4570 CPU 3.20 GHZ, 8GB RAM DDR III, Hard Disk 500 GB/ 240GB SSD

#### **Machine Learning Lab**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 8GB RAM DDR III, Hard Disk 1TB/ 240GB SSD

#### **Image Processing Lab**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 8GB RAM DDR III, Hard Disk 1TB/ 240GB SSD

#### **Software System Lab**

VIP Assembled Machine: Gigabyte H97m-D3h Motherboard, Intel Core I5-4440 3.10 GHZ, 8GB RAM DDR III, Hard Disk 1TB/ 240GB SSD

## **SCIENCE & HUMANITIES**

### **Physics**

Newton's Rings, Thin Air Wedge, Zener Diode Characteristics, Voltage Regulator using Zener Diode, Rectifier Trainer, Regulated Power Supply Trainer, Energy Gap of Semiconductor, Thermistor Characteristics, e/m by Thomson's Method, Planck's Constant using Photocell, Hall Effect Training System, Laser Experiments Kit, Abbe's Refractometer, Dual Channel CRO, Optical Fibre Trainer, Hysteresis Loop Tracer, Helmholtz Resonator, RLC series/parallel trainer, Optical Transducer Trainer

### **Chemistry**

Conductivity meter, Potentiometer, pH meter, Colorimeter, Magnetic stirrer with hot plate

### **Language Laboratory**

Computers (Dual Core, 4GB RAM), Server (i5, 4GB RAM), Orell Software, Operating System (Windows 10)

## **WORKSHOP**

### **Carpentry**

Wood Turning Lathe, Pedestal Drilling Machine, Pedestal Grinder

### **Fitting**

Fitting Table/Bench with 6 bench Vices, Surface Plate, Bench Grinder, Radial and Pillar Type drilling Machine, 5-ton press machine with rubber moulding die

### **Welding**

Arc Welding M/C Type of operation, Advani Oerlikon, DC Arc Welding M/C, Bench Grinder, Pedestal Drilling Machine, MIG welding Machine, TIG Welding Machine (MEMCO), TIG Welding Suppressor for aluminum, Air Compressor, Fronius Transtig 2200 TIG Welding Machine, Fronius Transpocket Welding Machine, Fronius Transteel 2700 MIG Welding Machine

### **Foundry/Smithy**

Hearth (Mobile), Pit (Cast Iron), Anvil (50 Kgs), Anvil (50 Kgs) (broken body), Anvil (75 Kgs), Anvil (100 Kgs)

### **Machine Shops**

Geared Lead Lathe Machine, Champion Belt Drive Lathe Machine (3 jaw chuck), Venus Geared head Lathe machine with three jaw chuck, Surface Grinder, Power



	Hacksaw, Shaper, Hydraulic Cylindrical Grinding M/C, Tool and Cutter Grinding Machine, Pillar type drilling machine, Radial and Pillar Type drilling Machine, BFW Milling Machine, Bench Grinder, Pedestal Grinder, Surface Plate (Granite), Hydraulic hand pallet truck	
xv.	Innovation Cell	Yes
xvi.	Social Media Cell	Yes
xvii.	Compliance of the Academic Bank of Credit (ABC)	Yes
xviii.	Video of Infrastructure and facilities	<a href="https://www.dbcegoa.ac.in/wp-content/uploads/2021/01/Don-Bosco-Infrastructure1.mp4">https://www.dbcegoa.ac.in/wp-content/uploads/2021/01/Don-Bosco-Infrastructure1.mp4</a>
xix.	Games and Sports Facilities	<a href="https://sports.dbcegoa.ac.in/#">https://sports.dbcegoa.ac.in/#</a> , Internal Badminton Court, Table Tennis, Football court, Volleyball court, Basketball Court, Futsal court
xx.	Teaching Learning Process	Civil Engineering: <a href="http://dbcegoa.ac.in/courses-programs/civil-engineering/">http://dbcegoa.ac.in/courses-programs/civil-engineering/</a> Mechanical Engineering: <a href="http://dbcegoa.ac.in/mechanical-engineering/">http://dbcegoa.ac.in/mechanical-engineering/</a> Electronics & Computer Science: <a href="https://dbcegoa.ac.in/electronics-and-computer-science/">https://dbcegoa.ac.in/electronics-and-computer-science/</a> Electronics & Telecommunication Engineering: <a href="http://dbcegoa.ac.in/courses-programs/electronics-telecommunication-engineering/">http://dbcegoa.ac.in/courses-programs/electronics-telecommunication-engineering/</a> Computer Engineering: <a href="http://dbcegoa.ac.in/courses-programs/computer-engineering/">http://dbcegoa.ac.in/courses-programs/computer-engineering/</a>
xxi.	Title of the Post Graduate Course	Computer Aided Structural Engineering (Civil) Data Sciences (Computer)
xxiii.	Laboratory facilities exclusive to the Post Graduate Course	Research Lab Software: ETABS

## 16. ENROLLMENT AND PLACEMENT DETAILS OF STUDENTS IN THE LAST 3 YEARS

Course		2022-2023	2021-2022	2020-2021
<b>Civil Engineering</b>	Enrolled	80	61	87
	Placed	08	20	16
<b>Mechanical Engineering</b>	Enrolled	109	60	85
	Placed	61	21	15

<b>Electronics &amp; Telecommunication Engineering</b>	Enrolled	47	56	82
	Placed	28	38	31
<b>Computer Engineering</b>	Enrolled	61	59	80
	Placed	37	37	21

## 17. LIST OF RESEARCH PROJECTS/CONSULTANCY WORKS

The list of research projects is available on the website: <https://dbcegoa.ac.in/other-grants/>

## 18. MOUS WITH INDUSTRIES

MoUs signed by the institute is available on the website: <http://www.dbcegoa.ac.in/mou-2/>

## 15. LoA/EoA

<b>LoA</b>	
<b>2011-2012</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/LOA-Report-2011-12.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/LOA-Report-2011-12.pdf</a>
<b>EoA</b>	
<b>2023-2024</b>	<a href="https://dbcegoa.ac.in/wp-content/uploads/2023/08/EOA-Report-2023-24.pdf">https://dbcegoa.ac.in/wp-content/uploads/2023/08/EOA-Report-2023-24.pdf</a>
<b>2022-2023</b>	<a href="https://dbcegoa.ac.in/wp-content/uploads/2022/08/EOA-Report-ORIGINAL-2022-2023.pdf">https://dbcegoa.ac.in/wp-content/uploads/2022/08/EOA-Report-ORIGINAL-2022-2023.pdf</a>
<b>2021-2022</b>	<a href="https://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA-Report-21-22.pdf">https://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA-Report-21-22.pdf</a>
<b>2020-2021</b>	<a href="https://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA_Report-2020-21.pdf">https://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA_Report-2020-21.pdf</a>
<b>2019-2020</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA-Report-2019-20.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2015/08/EOA-Report-2019-20.pdf</a>
<b>2018-2019</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2018/07/EOA-Report_2018-19.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2018/07/EOA-Report_2018-19.pdf</a>
<b>2017-2018</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/05/EOA_Report_2017-18.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/05/EOA_Report_2017-18.pdf</a>
<b>2016-2017</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2016-17.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2016-17.pdf</a>
<b>2015-2016</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2015-16.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2015-16.pdf</a>
<b>2014-2015</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2014-15.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2014-15.pdf</a>
<b>2013-2014</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2013-14.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2013-14.pdf</a>
<b>2012-2013</b>	<a href="http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2012-13.pdf">http://www.dbcegoa.ac.in/wp-content/uploads/2017/01/EOA-Report-2012-13.pdf</a>
<b>ACCOUNTED STATEMENTS</b>	

<b>2022- 2023</b>	<a href="https://dbcegoa.ac.in/wp-content/uploads/2023/11/Final-Accounts_Engg-College_22-23.pdf">https://dbcegoa.ac.in/wp-content/uploads/2023/11/Final-Accounts_Engg-College_22-23.pdf</a>
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