

BLUEPRINT

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VISION

To be the Centre of Excellence in Civil Engineering Education and Consultancy by providing holistic, innovative and research centric environment and keeping pace with rapidly changing technologies.

MISSION

- To impart quality education in civil engineering, through effectiveness and innovation in teaching and learning.
- To promote positive interactions among faculty and students and foster networking with alumni, industry and other stake holders.
- To train young minds in soft skills, intellectual and ethical strengths, conducive to globally competitive environment.
- To motivate students for research and entrepreneurship in relevant sectors of society with focus on excellence and creativity.
- To undertake sponsored research and provide consultancy services in all the

areas of civil engineering beneficial to the community.

FACULTY CORNER

PAPER/ JOURNAL PUBLICATIONS

Author Name	Title of Paper	Details	National/ International
Dr. Neena Panandikar Genevieve Fernandes	Assessment of Seismic Response of RC Structure with Vertical Irregularity in Different Seismic Zones	Second International Conference on Civil Engineering Innovative Development in Engineering Advances,2026	International
Asst Prof Prachi Dessai	Development of a regional framework for the identification of pharmaceutical compounds in aquatic systems using grey relational analysis	Water Science & Technology,IWA Publishing	International
Asst.Prof Vanessa Fernandes	Estimation of soil erosion in Goa using RUSLE,Remote sensing &GIS	Indian Geotechnical Journal,19 th March 2026	National
	Microstructural characterization &Experimental evaluation of lateritic soil using SEM and hole Erosion testing	Awarded Best paper for an International Conference on Sustainable developments in Civil Engineering,24 th and 25 th June 2026,Sangli,Maharastra	International

WORKSHOPS PARTICIPATED

Asst Prof Vanessa Fernandes & 3 Days workshop from Data to NIT Goa, 29th-31th May 2026

Asst Prof. Genievive Fernandes Decisions: Application of climate, hydrology
and geospatial tools

Dr Shwetha Prasanna & Asst.Prof. Vanessa Fernandes	8th Victor Demello Goa Lecture & Symposium on laterite soils	GEC, 14 th -15 th May 2026
Dr Shwetha Prasanna	5 day nurturing future leadership program	GIM, 9 th to 13 th February 2026
Asst.Prof Vanessa Fernandes	Two day National Conference on Geospatial technologies and roadmap to Viksit Bharat 2047	Autonomous College of Multidisciplinary studies & Research Margao-Goa, 29 th January and 30 th January 2026
Asst.Prof Vanessa Fernandes	State level Strategic workshop for placement mentors titled industry expectations and campus readiness	National Institute of Personal Management (NIPM), 17 th March 2026
Asst Prof. Shruti Jambhale	58 th IWWA Annual Convention 2026	IWWA, Mumbai, 22-24 January 2026
Asst Prof Satyesh Kakodkar	58 th IWWA Annual convention 2026	IWWA, Mumbai, 22- 24 January 2026
Asst Prof Starina Dias	Advanced Surveying Instruments	NIT-Goa, 17 th April 2026
Asst Prof. Anirudha B R	FDP on Autodesk revit fundamentals	Cadone solutions pvt limited. 30/05/2026
Asst Prof Vanessa Fernandes	International conference on sustainable developments in civil engineering	24 and 25 th June 2026
Asst Prof. Genevieve Fernandes	Training on POSH act 2013	Tech Trainers and Testers, Pune, 9 th January 2026

WORKSHOPS CONDUCTED

Name of Faculty/Resource person	Workshop/Seminar	Date
Prof. Shruti Jambhale	Mix design workshop	21 st April 2026
Mr. Cramelito Andrade	Drone surveying for the determination of areas and land mapping”	23rd April 2026

STUDENTS CORNER

STUDENT CHAPTER ACTIVITIES

On 10 April 2026, the student chapters of the Indian Geotechnical Society, Indian Concrete Institute and Indian Water Works Association of Don Bosco College of Engineering successfully organised a series of activities aimed at developing creativity, technical skills, and awareness among students. The activities conducted were IGS – Photography Event, ICI– Cube Test Competition, IWWA – Quiz Competition. The IGS student chapter organised a Photography Event to encourage students to observe and capture geotechnical aspects in their surroundings. Participants captured photographs related to soil behaviour, construction activities, and natural formations. The event enhanced students' creativity and observational skills. It provided a platform to interpret engineering concepts through visual representation. The activity promoted innovative thinking beyond conventional classroom learning. The ICI student chapter conducted a Cube Test Competition focusing on practical aspects of concrete technology. Students prepared and tested concrete cubes for compressive strength. The competition involved mixing, casting, curing, and testing procedures. It helped students gain hands-on experience in laboratory practices and quality control. The event emphasised the importance of concrete strength in structural design. The IWWA student chapter organised a Quiz Competition. It enhanced students' technical knowledge and quick thinking abilities. The activity encouraged team participation and healthy competition. Outcomes of the Event: Increased student engagement in co-curricular activities, improved practical knowledge and technical understanding, Enhanced teamwork, creativity, and analytical skills, Encouraged awareness of real-world engineering challenges, strengthened the role of professional student chapters in academic development. The activities

conducted were highly successful and beneficial. Each event contributed uniquely to the holistic development of students by combining creativity, practical exposure, and technical knowledge. Such initiatives play a crucial role in shaping competent and industry-ready engineers.



Online Training on MIDAS GEN for Analysis and Design of Mid-Rise Concrete Buildings

An online training session on “Analysis and Design of Mid-Rise Concrete Buildings using MIDAS GEN” was successfully conducted on 17th April 2026 for the final-year Civil Engineering students of Don Bosco College of Engineering, Fatorda. The training was coordinated by Prof. B. R. Anirudha, Assistant Professor, Department of Civil Engineering. The session was delivered by Mr. Harish Equbal, Structural Engineer at MIDAS IT India, who served as the resource person. The objective of the training was to provide students with practical exposure to industry-relevant structural analysis and design software, thereby bridging the gap between theoretical concepts and real-world engineering applications. The session focused on the modelling, analysis, and design of reinforced concrete mid-rise buildings using MIDAS GEN. The session commenced with an introduction to the MIDAS GEN interface and its applications in structural engineering. Students were guided through the step-by-step modelling of a reinforced concrete building using beam elements, with emphasis on practical modelling techniques and industry practices. The resource person further explained the importance of defining appropriate boundary conditions and constraints to ensure accurate structural behaviour. This was followed by a session on loading, where students learned about the application of various load cases and combinations as per relevant design standards, and the subsequent execution of structural analysis. A key highlight of the training was the demonstration of result interpretation. Students learned how to analyse displacements, internal forces, and stress distributions. The session also covered reinforced concrete design procedures using MIDAS GEN, along with its integration with Design+ for detailed design checks. The training concluded with the generation of a comprehensive design report, demonstrating how software tools can be effectively used to produce professional engineering documentation. The session was highly interactive, with active student participation and doubt

clarification. Overall, the training provided valuable insights into practical structural engineering workflows and significantly enhanced students' preparedness for professional practice.



SE FIELD VISIT

As part of our civil engineering field exposure, the department organised a field visit for second-year students at Nessai, Concrete manufacturing unit and the Selalulim dam on 12th March 2026. Asst. Prof. Shruti Jambhale and Genevieve Fernandes accompanied the students. Students visited the Ready Mix Concrete (RMC) plant operated by Alcon Cement at Nessai. The purpose of this visit was to understand the practical process involved in the production of ready-mix concrete using modern automated systems. We observed the storage of aggregates (40 mm, 20 mm, and 10 mm), different types of sand, cement silos, and the batching system. The plant uses load cells and computerised controls to measure and mix materials accurately according to the selected mix design. Moisture sensors adjust the water quantity automatically to maintain the correct water-cement ratio, while admixtures are added to maintain workability during transportation. The visit provided valuable insight into industrial concrete production and helped us connect theoretical knowledge with real-world construction practices. The students also visited Salaulim Dam to understand the practical

aspects of dam construction and water management. We arrived at the site at around 2:10 PM and observed the larger reservoir, the river, and the surrounding landscape. The engineer in charge welcomed us near the spillway and explained the history and purpose of the dam, which mainly supplies drinking water and irrigation water to support agriculture in Goa. The engineer also described the stages involved in dam construction, including site surveying, foundation preparation, construction of the dam body, and installation of spillways to control excess water flow. During the visit, we observed the massive concrete structure, spillway gates, reservoir, and safety monitoring systems used to ensure the dam's stability and performance.



TE FIELD VISIT

A site visit was organized for Third Year Civil Engineering students of Don Bosco College of Engineering on 23rd April 2026 with the objective of providing practical exposure to construction techniques and project management practices. Asst Prof.Satyesh Kakodkar, Asst. Prof.Kaushik Pai Fondekar and Asst.Prof. Vanessa Fernandes accompanied the students. The first visit was to ACE Infrastructure,at Guirim, where students studied raft (mat) foundation construction. This type of foundation was adopted due to weak soil conditions, requiring uniform distribution of structural loads. At the site, students observed reinforcement detailing, including proper bar spacing, tying techniques, and placement of cover blocks to maintain adequate concrete cover. The site engineer explained the significance of raft foundations in minimising differential settlement and enhancing structural stability. Additionally, the engineer demonstrated the interpretation of structural

drawings, enabling students to understand the correlation between design and execution. The second visit was conducted at the base camp of RRSN Infrastructure Pvt. Ltd. for the Goa–Vedanta SESA road project. This visit provided insight into large-scale road construction and overall project management. The base camp consisted of material storage areas, machinery yards, batching plants, and administrative offices, functioning as the central hub for planning, coordination, and execution of activities. Students were introduced to various stages of road construction, including earthwork, subgrade preparation, laying of sub-base and base courses, and pavement construction. They also observed the operation of heavy machinery such as graders, rollers, excavators, and asphalt equipment. Emphasis was placed on quality control measures, including laboratory testing of soil, aggregates, and bituminous materials, along with discussions on safety practices, workforce management, and logistics planning. A key highlight of the visit was the precast concrete yard at the base camp, where precast structural elements used in road and bridge construction are manufactured. Students learned about the functioning of a gantry crane used for lifting and transporting heavy components such as girders and deck segments. The role of support structures and staging platforms in ensuring stability during casting and curing was also explained. The adoption of precast construction technology was emphasised for its advantages, including improved construction speed, enhanced quality control, reduced material wastage, and increased efficiency. In conclusion, the site visits provided valuable practical exposure by bridging theoretical knowledge with real-world applications. The visit to ACE Infrastructure enhanced understanding of foundation engineering, while the visit to RRSN Infrastructure offered comprehensive insights into road construction and project management. Overall, the experience significantly contributed to the technical knowledge and professional development of the students.



MIX DESIGN WORKSHOP

The Department of Civil Engineering at Don Bosco College of Engineering, Fatorda, organized a one-day workshop on Concrete Mix Design on 21st April 2026 in the SE Civil Classroom. The workshop aimed to help students understand the concept of concrete mix design in accordance with IS 10262:2019 (revised version) and to provide practical exposure to various testing and casting procedures.

The workshop commenced with Session I, where Prof. Shruti Jambhale introduced the revised IS 10262:2019 code. The session focused on the key principles, updates, and methodology involved in concrete mix design as per the latest standards.

In Session II, students engaged in solving numerical problems based on the mix design procedure following the Indian Standard Code (2019). This session helped reinforce their theoretical understanding through practical application.

The afternoon session was dedicated to hands-on learning. Students conducted mix design trials and participated in the casting of concrete cubes for testing. They performed various tests, including the Slump Cone Test and Compaction Factor Test, and carried out mix design trials for M30 grade concrete in the Concrete Technology Laboratory.

A total of 35 students attended the workshop. The session proved to be highly informative and practical, enhancing the students' understanding of concrete mix design and laboratory testing procedures.



One Day Expert Session On “Drone Surveying For Determination Of Areas And Land Mapping”

The Civil Engineering Department of Don Bosco College of Engineering conducted a one day expert session was on 23rd April 2026 on “Drone surveying for determination of areas and land mapping”. The session was conducted by Mr. Carmelito Andrade, DGCA Drone Pilot and Trainer and was intended for SE Civil Students. In this session Mr. Cramelito Andrade explained to the students how drone works and showed how drones could be used to map an area. This session gave the students and insightful experience of the topic. This session was also conducted as part of one of the experiments in the subject of Surveying.



One Day Expert Session on “Generating maps using GPS Data in QGIS”

The Department of Civil Engineering at Don Bosco College of Engineering conducted a one-day expert session on “Generating Maps Using GPS Data in QGIS” on 16th April 2026. The session was delivered by Dr. Sanjay Gaikwad from the Department of Geography and Research Centre, Parvatibai Chowgule College of Arts and Science. It was organized for Second Year Civil Engineering students and formed part of a surveying laboratory experiment, focusing on the practical application of geospatial tools.



FIELD VISIT

Name of Faculty	Field Visit	Class & Sem	Date
Asst. Prof. Shruti Jambhale and Genevieve Fernandes	Site visit at Alcon-Nessai and Selaulim	SE-Sem 4 Students	12th March 2026
Asst Prof Satyesh Kakodkar, Asst Prof. Kaushik Pai Fondekar and Asst. Prof. Vanessa Fernandes	ACE Infrastructure, at Guirim Dam the base camp of RRSM Infrastructure Pvt. Ltd. for the Goa-Vedanta SESA road projec	TE-Sem 6 students	23rd April 2026

WEBINAR/SEMINAR

Name of Faculty/Resource person	Webinar/Seminar	Date
Dr. Sanjay Gaikwad from the Department of Geography and Research Centre, Parvatibai Chowgule College of Arts and Science	Expert session on Generating maps using GPS data in QGIS	16th April 2026
Prof. Shruti Jambhale	Mix design workshop	21st April 2026

PARTICIPATION IN CULTURAL ACTIVITIES

Name (s) of Students	Type & Level of Cultural Activities	Date(s)	Organized by
Sneha Subramani	Thatastu	2026	Parvatibai Chowgle
Sailee Mahale	Happenings procyon -art of colours and face painting	2026 23 and 24 march 2026	GEC Don Bosco College of Engineering

PARTICIPATION IN SPORTS ACTIVITIES

Name(s) of Students	Award/Prize won	Date (s)	Organized by
Sailee Mahale	Participated in tug of war Kabadi Cross country Handball	22/3/2026	Don Bosco College of Engineering

PARTICIPATION IN TECHNICAL ACTIVITIES

Name of the Student	Seminar/Workshop/ Technical Events/Conferences/Training programmes etc.	Date(s)	Organised by
Atharv Gaunkar, Jesus Rodrigues, Aman Shetye, Slenco Dias, Shail Murgod	One-day workshop on Advanced Surveying Instruments	17 th April 2026	NIT-Goa
Sailee Mahale	coverage 3.0 58th IWWA annual convention	30/1/26 22/1/26 &24/1/26	Fr. Agnel Ashram Verna IWWA Mumbai center
Atharv Naik Gaunkar, Aarman Manohar Mhaske , Deepraj Dilip Naik, Atharva Prabhu Dessai, Dixita Malkarnekar, Soham Naik, Garreth Serrão , Jessica D'silva, SAHARSH KRISHNA GAUDE, Jesus Pascoal Rodrigues, Niranjana kuttikar, Atharva Parulekar, Varad shirodkar, Pooja Budwant Goudar , Wayne fernandes, Slenco Sciff Dias, Mrinal Prabhu, Kiran Kishor Asnodkar	One-day training on ECSBC	6/3/2026	Don Bosco College of Engineering
Priya Vales, Yuvraj Dalvi, Soybhagya Tiwari, Ashutosh Prabhu, Sohan Holkar	Students parliament competition	24 February 2026	Students Parliament competition 2026
Priya Vales	Energy Conservation and building code for scope and compliance	6 th March 2026	State Designated Agency, Electricity department & All

			India Institute of local Self Government
Priya Vales,Mandrekar Kirti	Dr Victor demello	14 th -15 th May 2026	GEC
Rutika Karmalkar,Prachi Gawas Chaitanya Patil	Symposium on landslides in tropical soils		