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# 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
<b>Dr. Shwetha P.</b>	Prediction of shear strength parameters using basic soil properties	Proceedings of NHCE-SIMET 2025 Department of Civil Engineering Manipal Institute of Technology, Manipal	National
<b>Asst.Prof.Swaroop pa Sail</b>	Soil stabilization using Rice Husk Ash, Sugarcane Bagasse, Construction & demolition waste	Proceedings of NHCE-SIMET 2025 Department of Civil Engineering Manipal Institute of Technology, Manipal	National
<b>Asst.Prof.Vanessa Fernandes</b>	Estimation of erosion rate in Goa using Hole erosion test	Proceedings of NHCE-SIMET 2025 Department of Civil Engineering Manipal Institute of Technology, Manipal	National

## WORKSHOPS PARTICIPATED

Name of the Faculty Participated	Training Programmes	Date	Organization
<b>Asst.Prof.Genevieve Fernandes</b>	NPTEL Course on “High-Rise structures”	12th to 1th July 2025	NPTEL
<b>Asst.Prof.Genevieve Fernandes</b>	ATAL Academy FDP on Artificial Intelligence in Civil Engineering: A multidisciplinary approach	18th to 23th August 2025	PACE Institute of technology and sciences

<b>Dr. Shwetha Prasanna</b>	Phase I Academic leadership programme	8 <sup>th</sup> to 12 <sup>th</sup> September 2025	Directorate of Higher Education
<b>Asst.Prof.Vanessa Fernandes</b>	Design Thinking course	24 <sup>th</sup> September 2025	Infosys
<b>Dr. Shwetha Prasanna Asst.Prof.Vanessa Fernandes Asst.Prof.Starina Dias</b>	Indo US Preconference Workshop of First Geotech Asia International Conference 2025-Geo Vadis: The future of Geotechnical Engineering	6 <sup>th</sup> October 2025	IIT Bombay and IGS under the aegis of International Society for Soil Mechanics and Geotechnical Engineering
<b>Asst.Prof.Vanessa Fernandes Asst.Prof.Starina Dias</b>	Energy Conservation and sustainable building code (ECSBC) for commercial and residential buildings	16 <sup>th</sup> to 17 <sup>th</sup> October 2025	State designated agency, Electricity department, Goa & All India Institute of Local Self Government(AIILSG) supported by Bureau of Energy Efficiency (BEE), Ministry of Power
<b>Dr. Shwetha Prasanna, Asst. Prof. Swaroopa &amp; Vanessa Fernandes</b>	International Conference on New Horizons in Civil Engineering- Sustainable innovative materials & new technologies.	30-31 <sup>st</sup> October 2025	Don Bosco College of Engineering
<b>Dr. Shwetha Prasanna</b>	Phase II Academic leadership programme	3 <sup>rd</sup> to 8 <sup>th</sup> November 2025	Directorate of Higher Education
<b>Dr. Shwetha Prasanna,Dr. Nitendra Palankar,Asst.Prof Jeffrey Valadares,Asst.Prof Satyesh Kakodkar,Asst.Prof Shrutu Jambhale Asst. Prof. SwaroopaSail ,Asst.Prof Nadya Baracho ,Asst.Prof Starina Dias, Asst.Prof B R Anirudh ,Asst.Prof Prachi Dessai,Asst.Prof Kaushik PaiFondekar,Asst.Prof Jonessa Ferrao ,Asst.Prof Genevieve</b>	Three day training program on “Applications of Artificial Intelligence and Machine Learning in Civil Engineering”	27 <sup>th</sup> to 29 <sup>th</sup> November 2025	Don Bosco College of Engineering

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**Fernandes  
&Asst.Prof. Vanessa  
Fernandes**

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<b>Dr. Shwetha Prasanna</b>	Advanced Leadership programme	6 <sup>th</sup> to 12 <sup>th</sup> December 2025	ISB Bharati Institute of public policy
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## WORKSHOPS CONDUCTED

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<b>Name of Faculty/Resource person</b>	<b>Workshop/Seminar</b>	<b>Date</b>
<b>Prof. Shruti Jambhale</b>	Mix design workshop	24 <sup>th</sup> October 2025

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# STUDENTS CORNER

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## INSTALLATION OF CESA COUNCIL 2025-2026

The joint installation ceremony of the Civil Engineering Student Association (CESA) and the Computer Engineering Council of Students (C-CODES) for the 2025-26 batch took place on 9th August 2025 at Don Bosco College of Engineering, Fatorda, Goa. This annual event marks the beginning of a year filled with educational initiatives, including state and out-of-state field trips, expert lectures, technology-focused videos, competitions, and socially impactful projects, all aimed at enriching students' academic and professional development.



The ceremony commenced with a warm welcome by the host, Ms. Nadia Fernandes, who introduced the distinguished guests: Dr. Arnab Paul, Assistant Professor at BITS Pilani Goa; Engr. Krishna A.Sahakari, CEO of K.A. Sahakari & Associates; Rector Fr. Ralin De Souza; Principal Dr. Neena Panandikar; and Heads of Department, Dr. Shwetha Prasanna (Civil Engineering) and Dr. Gaurang Patkar (Computer Engineering), along with faculty coordinators Prof. Satyesh Kakodkar, Prof. Jonessa Ferrao, and Prof. Merwyn D'Souza. The lighting of the lamp marked the formal beginning of the event.

Dr. Gaurang Patkar delivered the welcome address, followed by the Principal Dr. Neena Panandikar's speech, where she acknowledged the efforts of the outgoing CESA and C-CODES councils. She encouraged the students to stay abreast of technological advancements, engage in skill-based learning, and prepare for industry challenges. Rector Fr. Ralin De Souza shared his insights, emphasizing three core values: the importance of emotions and values over empty quotes, the power of human connections, and the added responsibility that comes with serving in a student council, where no one is ahead but all work together towards common goals. The outgoing council was then felicitated for their hard work and commitment. In the second half of the event, the host introduced the newly elected CESA council members: Chairperson Ms. Priya Maria Vales, Secretary Ms. Yukti Melindra Naik, Treasurer Mr. Tabrez Jamal Khan, and Executive Members Smita Sunil Naik, Vysel Filoska Costa, Sahil Murgod, Wayne Fernandes, Sarvadnya Dessai, and Joshelle Santimano.

In their addresses, the special guests shared valuable insights. Dr. Arnab Kumar Paul spoke on leadership, highlighting the student council's role in bridging gaps between departments. Engr. K.A. Sahakari congratulated the new council, stressing that the world values engineers not just for structures, but for their resilience, safety, and integrity. He also encouraged students to focus on real-world problems through projects and software development.

The event concluded with a heartfelt vote of thanks by Dr. Shwetha Prasanna, expressing gratitude to everyone who contributed to the success of the ceremony. The installation of the new CESA Council was not just a celebration of leadership but also an inspiration for the students to pursue excellence in both their academic and professional journeys.



## SANKRITI 2025

This year's SANKRITI 2025 was held alongside INSPIRUS 9 under the banner of TECHFEST 2025. SANKRITI 2025 was a 2 day technical event organised by the Civil Engineering Students Association on the 9th and 10th of October 2025. The inaugural ceremony for TECHFEST 2025 was held at 9:30 am on 9th October 2025. Present at this ceremony were the Chief Guest Mr. Deepak Chodankar (Director, Wisdomlabs Synergies Ltd.), as well as other esteemed guests such as the Director, the Rector and Heads of the Civil engineering and Computer engineering departments. The Highlights of this ceremony included the premieres of the trailers for the events, the release of the Civil department Bulletin, the INSPIRUS 9 souvenir and the felicitation of graduates. It was a grand and fitting opening, perfectly matching the significance of the event.

SANKRITI 2025 had a total of 9 events out of which 5 were technical while the remaining 4 were non-technical.



## DAY 1

- The first day's events started off with a truss building competition known as "TRUSS STRUCTURA" which was held from 10:00am to 12:00pm in T1 and T2 classrooms on the ground floor.
- This was followed by the quiz known as "CIVIL TUMBOLA" which was conducted in the SE CIVIL classroom from 12:00pm to 2:00pm
- This was succeeded by a painting competition known as "ART ON SQUARES" that took place from 2:00pm to 4:00pm in the GEOTECHNICAL ENGINEERING LAB.
- In the background, there was a photography competition taking place within campus grounds known as "FRAME THE FAME" which ran its course from 10:00am to 4:00pm.
- The true highlight of Sankriti this time would have to be the model making competition known as "MODEN MARVELS" that took place for 12 hours from 10:00am to 7:00pm on the first day and continued from 9:00am to 12:00pm the next day.

## DAY 2

- Day 2 started with a technical competition involving slump test known as "GREENBLEND CONCRETE" which was held from 9:15am to 12:00pm in the CONCRETE LAB

- Next was the AutoCAD competition known as “CAD CLASH” which was held from 10:00am to 2:00pm in the CIVIL AUTOCAD LAB
- Followed by this was a wealth out of waste competition which was known as ‘TRASH TO TREASURE’ held from 11:00am to 1:00pm in T1 classroom.
- The last event was the debate completion known as “THE BATTLE OF THE WITS” which was held form 12:00am to 2:00pm in the SEMINAR HALL 2.



SANKRITI 2025 was concluded with a combined valedictory function alongside INSPIRUS 9 under the banner of TECHFEST 2025 at 3:30pm on 10th October 2025. This function was attended by the Chief Guest Dr. S K Prasad, Professor & HOD of civil department, Vidhyavardhaka College of Engineering, Mysuru. Dr. Prasad praised the collective efforts of students and faculty in organizing a vibrant and inclusive Techfest, highlighting the vital role such platforms play in nurturing creativity, innovation, and teamwork among aspiring engineers.



The function's highlights included video recaps from each event showcasing memorable moments from the two-day fest, the announcement of competition winners, and a heartfelt expression of gratitude to the sponsors, team members, participants, and faculty who contributed to its success. Overall, SANKRITI 2025 was a grand success and memories of it will always be cherished.

## ME FIELD VISIT

The students of M.E. Civil Engineering visited the Don Bosco Higher Secondary School construction site at Panjim on 22 October 2025 as part of their academic field visit. The students were accompanied by Prof. Vanessa Fernandes.

At the time of the visit, the first-floor slab of the new building was under preparation. The reinforcement work had been completed, additional shuttering was being placed, and electrical conduits were laid in position. Students closely observed the sequence of operations involved before concreting and gained a clear understanding of how structural and service works are coordinated on-site. It was observed that reinforcement bars ranging from 8mm to 32mm in diameter were being used as per the structural design specifications. The placement and tying of reinforcement were found to be consistent with standard construction practices and safety measures. The RCC structural drawings and architectural plans of the building were also shown and explained by the site engineers. This session helped students understand how design details are translated into on-site execution and how coordination is maintained between architectural and structural teams during construction. The visit provided valuable insights into reinforced concrete construction techniques, formwork installation, site supervision, and safety protocols followed during execution. Observing the actual construction process helped the students appreciate the importance of planning, precision, and teamwork in project implementation.

Overall, the field visit to Don Bosco Higher Secondary School, Panjim was a highly informative and enriching experience. It enhanced the students' understanding of both the technical and practical aspects of building construction, effectively bridging the gap between theoretical knowledge and practical application in civil engineering.



## BE FIELD VISIT

A field visit was conducted for students of Second year Masters students of Civil Engineering on 14<sup>th</sup> August 2025 at Don Bosco College Panjim to gain practical exposure to an ongoing construction project and understand the application of civil engineering concepts beyond classroom. The students were accompanied by Prof Satyesh Kakodar, Prof Starina Dias and Prof. Vanessa Fernandes. The students reached the site at 10:00AM. Fr. Kinley Dacruz welcome the students and faculty. Fr. Kinley gave a presentation about the extension of the existing Don bosco college site to the students and faculty. Fr mentioned that a four storey educational building is in progress. The total cost of the project is Rs 18 crores. After the presentation the students were taken to the under-construction site of Don Bosco College. The engineer explained about the details of the site. The consulting Civil Engineer for the project was Mr Olavo Carvalho. M30 concrete grade was used. Steel grade used was FE 550D (TATA/SAIL/JSW/VIZAG). The students saw the construction of a water tank and a drainage system. The project was in the stage of formwork removal of columns and beam support. Field visit concluded at 12:00pm. The Site visit helped students to bridge the gap between theoretical knowledge and practical applications. The students could develop a better understanding of the structural works and site challenges.



## MIX DESIGN WORKSHOP

One day concrete mix design workshop was organized by Civil Engineering Department of Don Bosco College of Engineering Fatorda. This workshop was organized to understand the concept of Mix design with respect to IS 10262-2019 (revised version) and also to get hands on experience on batching, mixing, slump test and casting of concrete.



In session I Prof. Shruti Jambhale gave an introduction to IS 10262 (2019) revised version. In Session II students solved a numerical based on the Mix Design procedure according to the Indian standard code (2019). In the afternoon session Third year students were given hands on experience on conducting mix design trials and casting of cubes for tests. The students conducted Slump Cone test, Compaction factor test and also conducted mix design trials for M30 grade of concrete in Concrete Technology Lab. The workshop was organized on 24<sup>th</sup> October 2025 in TE Civil Classroom. Total 48 numbers of students attended the workshop.



## FIELD VISIT

Name of Faculty	Field Visit	Class & Sem	Date
<b>Prof. Satyesh Kakodkar, Prof. Starina Dias, Prof. Vanessa Fernandes</b>	Site Visit for ME students at DBCE Panjim	ME Sem I & Sem III Students	14 <sup>th</sup> August 2025
<b>Prof. Vanessa Fernandes</b>	Site Visit at Sahara Constructions	Prof. Vanessa Fernandes	11 <sup>th</sup> September 2025
<b>Prof. Shruti Jambhale</b>	Educational tour to Hyderabad	ME Sem 3 students	11 & 17 <sup>th</sup> October 2025
<b>Prof. Satyesh Kakodkar &amp; Prof. Vanessa Fernandes</b>	Site visit at Don Bosco Higher Secondary School Panjim	ME Sem 3 students	22 <sup>nd</sup> October 2025

## WEBINAR/SEMINAR

Name of Faculty/Resource person	Webinar/Seminar	Date
<b>Mr. Krishna A. Sahakari, CEO of K. A. Sahakari &amp; Associates</b>	NDLI Session on Holistic success, Cultivating personal growth self discovery and leadership alongside academic excellence	09 <sup>th</sup> August 2025
<b>Prof. Jeffrey Valadares</b>	Entrepreneurship Development Program	21 to 23rd August 2025

<b>Roheet Hede, consultant architect, Roheet Hede and Associates – Architects and Planners, Prof. Ramrao Surya Wagh, Vice Dean of the Goa Business School at Goa University</b>	Tech Talks	15 <sup>th</sup> September 2025
<b>Prof. Shwetha Prasanna , Prof. Swaroopaa Sail, Prof. Vanessa Fernandes</b>	Indo-US Workshop on Advances in Geotechnical Engineering : Infrastructure and Technology	6 <sup>th</sup> October 2025
<b>Prof. Starina &amp; Prof. Vanessa Fernandes</b>	Two day integrative design approach on Energy Conservation and Sustainable building code	16 <sup>th</sup> & 17 <sup>th</sup> October 2025
<b>Prof. Shruti Jambhale</b>	Mix design workshop	24 <sup>th</sup> October 2025
<b>Dr. Sathishraj Mani, Faculty of Civil Engineering, NIT Goa</b>	One-day technical workshop on Introduction to GIS and Primavera Software	November 8 <sup>th</sup> 2025

## PARTICIPATION IN CULTURAL ACTIVITIES

<b>Name (s) of Students</b>	<b>Type &amp; Level of Cultural Activities</b>	<b>Date(s)</b>	<b>Organised by</b>
<b>Raylan Palmeira,Sneha Subramani</b>	CAD Clash “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering
<b>Manjunath Mundasad,Akash Kumar</b>	CAD Clash “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering
<b>Clarita De Souza</b>	Civil Tumbola “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering
<b>Dnyaneshwari Thakur</b>	Art of Squares “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering
<b>Valanka Rodrigues, Grishma Bandodkar</b>	Green Blend Concrete “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering
<b>Suhani Wadkar</b>	Model Marvel “Sankriti 2k25”	9 <sup>th</sup> -10 <sup>th</sup> October 2025	Don Bosco College of Engineering

## PARTICIPATION IN SPORTS ACTIVITIES

Name(s) of Students	Award/Prize won	Date (s)	Organised by
<b>Sanjeev Shivdas Parab</b>	--	15 th to 16 th July 2025	Goa University
<b>Sanjeev Parab</b>	--	18 th July 2025	Goa University
<b>Sohan Kavlekar, Anuj Vernekar</b>	Runners up	5 th to 8 th August 2025	Goa University
<b>Pravin Velip, Ritesh Naik, Akash Gaonkar</b>	--	16 th August 2025	Goa University
<b>Rutika Karmalkar, Sneha Subramani</b>	--	16 th August 2025	Goa University
<b>Sneha Gounder</b>	--	19 th to 22 nd August 2025	Goa University
<b>Smita Naik</b>	--	2 nd to 5 th Sept 2025	Goa University
<b>Samruddha Patil, Hansel D' silva, Elrich Fernandes, Tabrez Khan</b>	--	2 nd to 5 th Sept 2025	Goa University
<b>Samruddha Patil, Sufyan Zattu, Sohan Kavlekar, Sadanand Godkar</b>	--	16 th September 2025	Goa University
<b>Sneha Gounder</b>	3 <sup>rd</sup> Place	16 th September 2025	Goa University
<b>Winston Lopes</b>	--	9 th to 11 th September 2025	Goa University

## PARTICIPATION IN TECHNICAL ACTIVITIES

Name of the Student	Seminar/Workshop/ Technical Events/Conferences/Training programmes etc.	Date(s)	Organised by
<b>Mandrekar Kirti, Yash Savant, Supriya Patil, Sujal Goudar, Rutika Karmalkar, Atharva Sawal, Prachi Gawas, Akash Gaonkar, Priya Vales, Chaitanya Patil, Akash Gaonkar</b>	Indo US preconference workshop of “First Geotech Asia International Conference 2025”	6 <sup>th</sup> October 2025	Indian Institute of Technology and Indian Geotechnical Society
<b>Clarita De Souza, Akanksha Nagvenkar, Bipin Bhagat, Omvithal Raikar, Sadiya Shaikh, Sailee Mahale, Chinmayi Naik, Yogan Kossambe, Xavy Rebello</b>	2 Day Training on ‘Energy Conservation And Sustainable Building Code’	16 <sup>th</sup> -17 <sup>th</sup> October 2025	State Designated Agency ,electricity department, Goa and AILSG
<b>Yogan Kossambe, Xavy Rebello</b>	Workshop on “Introduction to GIS and Primavera”	8 <sup>th</sup> November 2025	National Institute of Technology Goa