



MECHBYTES

NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT

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Mr. Anish Bandekar

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Mr. Anrio Da Costa

VISION

To evolve as a Centre of Excellence in Mechanical Engineering with a strong Industry Connect, ensuring engineers with a global perspective and professional ethics, thus adding value to society

MISSION

- To ensure proficiency in academics with emphasis on fundamental concepts and problem solving leading to practical applications in the field of Mechanical Engineering
- To provide state of the art Training in collaboration with reputed industries and institutions focussing on interdisciplinary domains
- To engage in Research, Consultancy services and promote community outreach initiatives
- To promote Faculty Development through Quality Improvement Programs and Research

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- Graduates will apply Engineering Knowledge and demonstrate the requisite skills to meet challenges in the field of Mechanical Engineering.
- Graduates will adapt to the technological advances and relevant softwares in the industry.
- Graduates will acclimatize to real time Industrial Systems, Standards and Professional Engineering Practices.
- Graduate will exhibit Strong Values, Work Ethics, Positive Attitude, Managerial Skills and Team Work with concern for the society.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Graduates will be able to demonstrate knowledge of Maintenance Engineering Practices, Industrial Automation Tools and standard Softwares in Mechanical Engineering and related areas.
- Graduates will be able to correlate knowledge of Mechanical Engineering and allied fields with Industrial Processes, Practices and Standards through field visits, Internships and other intervention

ACADEMIC ACTIVITIES

STUDENT CHAPTERS

FSAI STUDENT CHAPTER INSTALLATION

The Installation Ceremony of the newly elected office bearers of the Fire & Security Association of India (FSAI), DBCE Student Chapter for the academic year 2025–26 was conducted on 14 February 2026 at Don Bosco College of Engineering, Fatorda, Goa. The event was organized by the FSAI Student Chapter of the Mechanical Engineering Department in association with the FSAI Goa Chapter.

The programme was graced by Mr. Ashok Menon, Chairman – Operations (MoA, Ethics, Finance & HR), FSAI and former Director of Goa Fire and Emergency Services, as the Chief Guest. Also present on the dais were Rev. Fr. Wilfred Fernandes, Director, DBCE; Mr. Anand Ramakrishnan, President, FSAI Goa Chapter; Dr. Suraj Marathe, Head of the Mechanical Engineering Department; Dr. Ajit Salunke, Faculty Coordinator; and Mr. Britt Vales, the incoming Chapter President.



Mr. Menon, delivered an insightful address highlighting the importance of fire and industrial safety as a professional responsibility. Drawing from his extensive experience in fire services and disaster management, he encouraged students to actively engage in awareness programmes and uphold high safety standards in their future

careers. Fr. Wilfred encouraged students to actively participate in professional bodies to develop leadership qualities and technical competence. Mr. Ramakrishnan, President of the FSAI Goa Chapter, highlighted the rapidly advancing developments in the field of mechanical engineering and elaborated on the promising career prospects available for aspiring engineers. Dr. Marathe delivered the welcome address and emphasized the importance of the FSAI Student Chapter in enhancing students' knowledge of fire safety and industrial safety through training programmes, workshops, and industry interaction. Mr. Anish Barretto, outgoing President, presented the Annual Report for 2025–26, highlighting major activities conducted during the year. The newly elected office bearers formally took the oath, pledging to discharge their responsibilities with dedication and integrity while promoting safety awareness. Mr. Britt delivered the vote of thanks. The event was coordinated by Prof. Aniket Naik, Faculty Coordinator.

TEKFEST 2.0

TekFest 2.0, a collaborative technical festival organized by the Department of Mechanical Engineering (MESH) and the Department of Electronics and Computer Science (ENCinC), was held at Don Bosco College of Engineering, Fatorda on 8th and 9th April 2026. The event provided a vibrant platform for aspiring engineers to showcase their technical skills, creativity, and innovative ideas.

The inaugural ceremony was graced by the Chief Guest, Ms. Joy Afonso, Head of Human Resources at IFB Industries, Goa. Rev. Fr. Ralin De Souza, Rector of Don Bosco Fatorda; Dr. Neena Panandikar, Principal; Dr. Suraj Marathe, Head of the Mechanical Engineering Department; Dr. Vidya D. S., Head of the Electronics and Computer Science Department; faculty coordinators Prof. Kimberly Morais, Prof. Anisha Cotta, Prof. Sanjeel Naik, and Mr. Mazen Leitão, Chairman, MESH; along with Mr. Preston D'Silva, Chairman of ENCinC, were also present on the occasion.

Dr. Neena Panandikar welcomed the gathering and commended the faculty coordinators for their dedicated teamwork and collaborative efforts.

Ms. Afonso described the event as a celebration of creativity and technological talent. She highlighted the increasing need to bridge



academic learning with real-world industry practices, particularly in the manufacturing and electronics sectors. She also encouraged students to develop both strong technical competencies and essential professional soft skills, while continuously striving for growth and lifelong learning. Fr. Ralin emphasized the importance of applying knowledge and maintaining integrity in the learning process. Mr. Preston delivered a brief overview of the festival, outlining its objectives and significance. Mr. Mazen proposed the vote of thanks. The event was compered by Mr. Reeve Fernandes and Ms. Esther Mascarenhas.

TekFest 2.0 featured a diverse range of technical competitions such as robo racer, robo Sumo, coding, circuit design and CAD modelling. Students from various colleges and schools such as PCCE, GEC, Mahila & Nutan etc. participated in the event.

WORKSHOPS/ SEMINARS / WEBINARS & EXPERT TALKS

INDUSTRIAL SAFETY & HEALTH TRAINING AT DBCE – BUILDING A SAFER TOMORROW

A one-day training program on “Industrial Safety and Health” was organized by the Inspectorate of Factories and Boilers, Govt. of Goa in association with the FSAI DBCE Student Chapter on 11th Feb 2026. The event aimed to enhance participants’ understanding of Industrial Safety and their role in adapting modern safety measures.

At the inaugural ceremony, Dr. Suraj Marathe, HOD of the Mechanical Engineering Department, delivered the welcome address. Fr. Wilfred Fernandes (Director, DBCE) expressed his heartfelt gratitude to the resource speakers for enlightening the students on the importance of safety and its role in building a secure future, emphasizing the significance of precautionary measures.



Shri Govind Lotlikar, Former DGM – Fire, Safety & Training at Zuari Agro Chemicals Ltd., highlighted the risks of neglecting safety in daily life through practical case studies and real-world examples. He explained key concepts such as accident prevention, total loss control, occupational hazards, and the direct costs of accidents.

In his session on Fire Safety, he discussed the causes of fire, the fire tetrahedron, and fuel properties, and shared personal experiences of handling hazardous situations through safe practices.

Shri Gaurish Bhende, HSE Associate Director at Deccan Fine Chemicals Pvt. Ltd., introduced the various chemicals used in industries and stressed the importance of acoustic enclosures and PPEs to safeguard employees’ health and safety. He shared real-life case studies of shop-floor accidents and suggested preventive measures such as installing machine guards and safety floor markings. He also emphasized the mandatory implementation of LOTOTO (Lock Out, Tag Out, Try Out) during machine maintenance. Prof. Aniket Naik, event coordinator, proposed the vote of thanks.

TRAINING ON “ENERGY CONSERVATION AND SUSTAINABLE BUILDING CODE”

A one-day training programme on Energy Conservation and Sustainable Building Code (ECSBC) for Scope and Compliance was organized on 6th March 2026 at Don Bosco College of Engineering, Goa. The programme was jointly organized by the State Designated Agency (SDA), Electricity Department Goa and the All India Institute of Local Self Government

(AIILSG), with support from the Bureau of Energy Efficiency (BEE), under the Ministry of Power.

The training aimed to create awareness about sustainable building practices and the implementation of ECSBC guidelines. Prof. Sharad Shanbhag, Assistant Professor from the Mechanical Engineering Department, attended the programme along with 18 final year Mechanical Engineering students.



Mr. Govinda Somani, an ECBC master trainer, introduced participants to the Energy Conservation Building Code for Commercial (ECSBC-C) and Residential (ECSBC-R) buildings. He explained the scope of the code, the importance of compliance for reducing energy consumption, and discussed various compliance

methods. The session also covered sustainable site planning and building envelope optimization to improve overall building energy efficiency.

ECBC master trainer Mr. Gaurang Lele discussed key aspects of sustainability, including water conservation and efficient water management in buildings. He also covered waste management practices, indoor air quality, and the importance of proper ventilation. The session introduced the Eco-Niwas Samhita (ENS) and concepts such as natural ventilation, passive building design, and the use of natural lighting to reduce energy demand, along with case studies of sustainable buildings and career opportunities in energy management.

DBCE MECHANICAL DEPARTMENT CONDUCTS AUDIT COURSE IN MAINTENANCE ENGINEERING

The Audit Course in Maintenance Engineering was conducted by the Mechanical Engineering Department of Don Bosco College of Engineering for Third-Year Mechanical Engineering students during their sixth semester in the academic year 2025-26. The course was designed to equip students with the knowledge and skills required to evaluate, analyze, and improve maintenance processes in industrial environments. It provided a comprehensive understanding of the fundamental principles, techniques, and best practices associated with maintenance activities, thereby enhancing students' awareness of the role of maintenance in ensuring equipment reliability, operational efficiency, and productivity.

Five audit course sessions were conducted throughout the semester by speakers from industry and academia.

Session 1: Technical Talk on Maintenance Practices-Industrial Perspective

This session was conducted on 13th February by Mr. Benedicto Andrade, a maintenance and project execution professional with extensive experience in plant operations and reliability

services. During the session, Mr. Andrade highlighted the critical role of structured maintenance in achieving operational excellence in large-scale industrial environments. Drawing upon his experience at Zuari Agro Chemicals Ltd., he emphasized the importance of planned equipment maintenance and discussed a comprehensive maintenance strategy that integrates preventive, predictive, and corrective maintenance approaches to enhance equipment reliability, reduce downtime, and improve overall plant performance.

Session 2: Maintenance Procedure for CNC Machines

This session was conducted on 20th February by the in-house resource persons, Prof. Gaurish Samant and Mr. Diptesh Naik. The session provided hands-on exposure to preventive and corrective maintenance practices for CNC machines used in modern manufacturing industries. Through live demonstrations and troubleshooting exercises, the resource persons explained essential maintenance checks and best practices. The session enhanced students' understanding of CNC machine maintenance and highlighted the importance of systematic inspection and preventive measures in ensuring reliable machine performance.

Session 3 and 4: Practical sessions on dismantling and assembling different components

The third and fourth sessions were conducted on 10th and 17th April. During these sessions, students were assigned equipment such as an air compressor, manual press machine, transformer coil winding machine, and a 2-stroke engine for dismantling and reassembly. The activity provided hands-on experience in understanding the construction and working of mechanical components, proper use of tools, systematic dismantling procedures, component inspection, and accurate reassembly, thereby enhancing students' practical maintenance and troubleshooting skills.



Session 5: Technical Talk on Maintenance of Electric Vehicles: Owner's Standpoint

An interactive session on "Maintenance of Electric Vehicles: Owner's Standpoint" was conducted by Prof. Aniket Naik on 22nd May. The session covered key aspects of EV maintenance, including battery systems, charging, thermal management, and routine servicing, with practical insights from the Tata Tiago EV Long Range.



FIELD VISITS

VISIT TO INDIA ENERGY WEEK 2026

Students of the Mechanical Engineering Department, Don Bosco College of Engineering, Fatorda–Goa, undertook a field visit to India Energy Week 2026, held from 27th to 30th January 2026 at the ONGC Advanced Training Institute (ATI), Betul, Goa. They were accompanied by faculty members, Dr. Ajit Salunke and Prof. Aniket Naik., with the objective of providing students with practical exposure to emerging trends and technologies in the global energy sector.

India Energy Week is India's flagship international energy event, bringing together policymakers, global energy leaders, technology providers, financial institutions, researchers, and academia to deliberate on critical issues related to energy security, sustainability, decarbonisation, and the transition to clean energy. The exhibition featured over 700 global exhibitors spanning domains such as Hydrogen and Green Energy, Renewable Power, Biofuels, Petrochemicals, LNG Ecosystem, Fuel & Energy Processing, Engineering Solutions, Digitalisation & AI (IIoT), and the Make in India Zone.

Students had the opportunity to explore exhibits from leading national and international companies including ONGC, Indian Oil Corporation, Bharat Petroleum (BPCL), Reliance Industries, Adani Group, Siemens, General Electric (GE), Sulzer, ABB, and Larsen & Toubro, along with several international country pavilions. These exhibits showcased cutting-edge technologies, integrated energy solutions, net-zero



pathways, smart energy systems, and next-generation clean energy innovations. The visit enabled students to interact directly with industry professionals and technical experts, observe live demonstrations, and understand real-world applications.

DBCE MECHANICAL STUDENTS VISIT ASTRA METAL, VERNA

The second-year Mechanical Engineering students of Don Bosco College of Engineering visited Astra Metal Systems Private Limited, Verna, Goa, on 10th April 2026, as part of an industrial visit aimed at gaining practical exposure to modern manufacturing practices. Astra Metal Systems is an ISO 9001:2015 certified organization with over two decades of experience in precision sheet metal fabrication and assembly, serving industries such as

aerospace, telecom, healthcare, banking, and infrastructure. The visit was conducted under the guidance of faculty member Dr. Avil Allwyn Dsa,

During the visit, students were introduced to key sheet metal manufacturing processes, including CNC laser cutting, CNC punching, and CNC press brake bending. These operations demonstrated role of automation and computer-controlled systems in modern manufacturing. The visit also covered surface finishing and coating processes such as brush finishing, plating, and painting, which enhance surface quality, corrosion resistance, and durability. The company follows ROHS-compliant practices, ensuring environmental and safety standards.



Students also learned about quality inspection using advanced metrology tools like laser-based systems for precise measurement and consistency. The visit highlighted the wide applications of sheet metal components in aerospace, telecom, medical, and infrastructure sectors, demonstrating their industrial importance.

FINAL YEAR MECHANICAL ENGINEERING STUDENTS OF DBCE UNDERTAKE EDUCATIONAL AND INDUSTRIAL TOUR TO NORTH INDIA

The Final Year Mechanical Engineering students of Don Bosco College of Engineering undertook an Educational and Industrial Tour to North India from 1st to 10th May 2026. The tour aimed to provide students with hands-on exposure to industrial operations, power generation systems, defence technologies, and environmental conservation practices, enabling them to understand their practical applications and bridge the gap between theoretical concepts and real-world engineering practices.

On May 4, the students visited the Wildlife Information Centre, Manali and gained valuable knowledge about the biodiversity, wildlife conservation, and ecological significance of the Himalayan region. The centre provided detailed information about various species of flora and fauna found in Himachal Pradesh, including endangered species such as the snow leopard, Himalayan black bear, and musk deer. They also learnt about forest conservation practices, wildlife protection measures, environmental awareness initiatives, and the role of government agencies in preserving natural habitats and maintaining ecological balance. The visit enhanced the students' understanding of environmental sustainability and wildlife management systems.

The visit to Malana Hydro Electric Power Plant on May 6 provided exposure to hydroelectric power generation and the functioning of a modern hydro power station. Students observed



major components such as turbines, generators, control panels, transformers, and water management systems. The plant officials explained the process of converting hydraulic energy into electrical energy and highlighted the importance of renewable energy resources in sustainable power generation. Students also gained insights into plant operations, safety procedures, preventive maintenance practices, and energy management systems followed in hydroelectric power plants. The visit significantly

enhanced their understanding of power generation technologies and industrial operations.

On May 7, the students visited the War Museum at Wagah Border and gained knowledge regarding the historical, military, and strategic significance of the India–Pakistan border region. The museum displayed various defence-related exhibits, military equipment, surveillance technologies, communication systems, uniforms, and information related to national security operations. A major attraction was the display and demonstration of modern drone technology used for border surveillance and defence operations. Students learned about the application of drones in aerial monitoring, reconnaissance, real-time data acquisition, security patrolling, and intelligence gathering. Technical aspects such as drone navigation systems, imaging technologies, communication systems, and their role in modern warfare and border security were also explained. The visit further provided insights into military engineering, logistics management, surveillance systems, and operational strategies adopted for border protection. It enhanced students' understanding of defence technologies, strategic infrastructure, and the importance of advanced technological systems in national security.

Overall the tour encouraged teamwork, discipline, communication skills, leadership qualities, and interpersonal development among the students. It also enhanced deeper appreciation of the diverse applications of mechanical engineering in modern society among students.

Dr. Suraj Marathe, Head of the Mechanical Engineering Department, accompanied the students throughout the educational tour and guided them during the visits and technical interactions.

THIRD YEAR MECHANICAL STUDENTS VISIT GODREJ LOCKING SOLUTIONS AND CHURI ELECTROMECH

The Department of Mechanical Engineering of Don Bosco College of Engineering organized an industrial visit for the Third Year Mechanical Engineering students on 15th May 2026 to Godrej Locking Solutions and Systems and Churi Electromech Industries. The students were accompanied by Prof. Sachin Turi, Prof. Gaurish Samant and Prof. Anish Bandekar. The visit commenced with an introductory session by Mr. James Kurian, General Manager of Godrej, who briefed about the company's history, manufacturing practices, quality standards, and industrial safety measures.

During the visit, students had the opportunity to observe various advanced manufacturing processes and machinery used in the lock manufacturing division. They observed the Die casting process, Press tool operations, CNC machining operations, VMC (Vertical Machining Centre) operations, Wire EDM machine, CMM (Coordinate Measuring Machine), Automated assembly systems and Quality inspection procedures. They gained practical understanding of precision manufacturing, automation techniques, tooling systems, and quality control methods used in the industry.

At Churi Electromech Industries, Mr. Sachin Churi, introduced the company and explained its industrial operations. The students observed various manufacturing and finishing operations including Press tool operations, Powder coating process, Welding operations and Assembly processes. They were able to understand different fabrication and finishing techniques adopted in the industry and the importance of workflow management and production planning.

The industrial visit was coordinated by Prof. Gaurish Samant and Prof. Sachin Turi with the support of Dr. Suraj Marathe, Head of the Department of Mechanical Engineering.



TRAINING & PLACEMENT

We are proud to share the placement success of our Mechanical Engineering students. Our graduates have secured placement offers with leading companies across the industry.

Eurostampa India Pvt. Ltd.



Chenoy Ferrao
Dos Santos



Ragini Manoj
Maurya



Amey Gururaj
Shenvi



Om Mangirish
Sinai Kakodkar



Shubhay Bipin
Vernekar

Ace Centro, Dubai



Anish Savio
Barreto



Liban Khan



Pandurang
Dattakumar Raiker



Reagan Livmento
Fernandes

IFB Industries Ltd.



Aditya Kumar
Mandal



Josiah Anand
Fernandes



Mystyn Ansley
Gracias



Adarsh Tipu
Gawade

FACULTY INITIATIVES

PAPER/ JOURNAL PUBLICATIONS

Sr. No.	Author Name	Title of Paper	Details of Journal name, volume, series, year/ Conference Details	National/ International
1	Dr. Ajit Salunke	Intelligent Mechatronic Systems for Physical Properties Based Quality Grading of Agricultural Edible Nuts: Integrating Machine Vision & IOT	4 th International Conference on Mechatronics, Control & Robotics (ICMCR 26)	International
2	Dr. Avil Dsa	Analytical and geometric perspectives on altered tooth-sum spur gears within a unified non-dimensional gear design framework	Mechanism and Machine Theory 2025 (2026)	International

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

Sr.No	Seminar/Workshop/ Short Term Courses/ Conferences/ Training Programmes etc.	Date	Duration	Organization	Name of the Staff Participated
1	Training program on Nurturing Future Leadership	9 th -13 th March 2026	5 day	GIM under the aegis of Malaviya Mission Scheme Teacher's Training program, of Govt of India	Dr. Suraj Marathe
2	8 week NPTEL course on Manufacturing of Turbines (5% topper)	Feb-April 2026	8 week	IIT Madras	Mr. Dattaguru S
3	Two-day hands-on workshop titled "From SolidWorks to Reality."	7 th -8 th March 2026	2 day	Department of Mechanical Engineering, BITS Pilani K. K. Birla Goa Campus,	Prof. Sachin Turi Prof. Aniket Naik
4	Faculty Development Programme on Mechanical, Aerospace and Energy Engineering	8 th – 20 th June 2026	2 weeks	Indian National Academy of Engineering (INAE) & IIT Guwahati	Dr. Avil Dsa

FACULTY INITIATIVES AND ACHIEVEMENTS

DR. AJIT SALUNKE INVITED AS SPEAKER AT INTERNATIONAL CONFERENCE ICMCR 2026, TOKYO, JAPAN

Dr. Ajit Salunke delivered an invited talk on "Intelligent Mechatronic Systems for Physical Properties Based Quality Grading of Agricultural Edible Nuts: Integrating Machine Vision & IOT" at the 2026 4th International Conference on Mechatronics, Control & Robotics (ICMCR 26) held in Tokyo, Japan, from March 20 to 22. The conference was co-sponsored by IEEE and Jeju National University, South Korea, and hosted by the Sensors & Systems Society of Singapore.

During his presentation, Dr. Salunke highlighted his research on objective quality grading of arecanut kernels using physical properties such as density and porosity, with volume estimation performed through machine vision. He explained the feasibility of this approach for real-time grading based on true density and also described the IoT-based system developed for preliminary screening of kernel batches.



The conference gathered researchers from various countries, including Japan, Canada, Poland, China, South Korea, Hong Kong, India, Kosovo, Taiwan, Singapore, the Philippines, and Thailand, to exchange their research findings. The papers will be published in ICMCR2026 Conference Proceedings, which will be archived in IEEE Xplore and submitted to be indexed by Ei Compendex and Scopus.

DR. AVIL DSA REPRESENTS DBCE AT PRESTIGIOUS NATIONAL FACULTY PROGRAMME AT IIT GUWAHATI

Dr. Avil Allwyn Dsa from the Department of Mechanical Engineering recently attended a comprehensive two-week Faculty Development Programme on Mechanical, Aerospace, and Energy Engineering held at IIT Guwahati from 8th June to 19th June 2026. Organized by the Indian National Academy of Engineering (INAE) under its Centre for Engineering Education Excellence (CEEE) initiative, the national-level programme was jointly conducted by the Centre for Educational Technology (CET) and the Department of Mechanical Engineering at IIT Guwahati. The initiative brought together engineering faculty participants from various institutions across the country to collaborate and upgrade their expertise.

The programme was specifically structured to enhance both the technical competence and pedagogical skills of the participating faculty members. The curriculum covered five essential domains of engineering: Manufacturing, Thermodynamics, Mechanics of Deformable Solids, Fluid Mechanics, and the Basics of Energy. Coordinated by a panel of experts including Prof. Shrikrishna N. Joshi, Prof. Karuna Kalita, Prof. Atul Soti, Prof. Tarkes Dora Pallicity, and Prof. Pranab Kumar Mondal, the sessions combined intensive theoretical instruction with practical laboratory demonstrations and interactive tutorials.

Throughout the two weeks, the sessions detailed recent advancements in modern production techniques, thermal systems, structural analysis, and sustainable energy technologies. The event strongly emphasized the importance of adopting innovative teaching methodologies and integrating hands-on,



laboratory-based learning into modern engineering education, providing valuable technical and instructional insights to bring back to our department's classrooms and labs.

BRIDGING DESIGN AND MANUFACTURING: DBCE MECHANICAL FACULTY ATTENDS 'FROM SOLIDWORKS TO REALITY' WORKSHOP AT BITS, GOA



Mr. Sachin Turi and Mr. Aniket Naik, Assistant Professors in the Mechanical Department of Don Bosco College of Engineering, Fatorda, participated in a two-day hands-on workshop titled 'From SolidWorks to Reality' held on 7th and 8th March 2026, organized by the Department of Mechanical Engineering, BITS Pilani K. K. Birla Goa Campus in collaboration with the Teaching Learning Centre

(TLC). The workshop focused on bridging the gap between Computer-Aided Design (CAD) and Additive Manufacturing (AM), offering participants practical exposure to transforming digital models into physical prototypes. Key sessions included 3D part and assembly modelling using SOLIDWORKS, invited talk on Metal Additive Manufacturing, Sessions on Design considerations for 3D printing, slicing and build preparation, the use of AR/VR in additive manufacturing, and hands-on fabrication using FDM and DLP systems.

DBCE HONORED AT FSAI NATIONAL CONCLAVE ON SAFE AND SECURE HOSPITALITY

The Fire & Security Association of India (FSAI), Goa Chapter, organized the National Conclave on Safe and Secure Hospitality on 18–19 June 2026 at Taj Vivanta, Panaji. The two-day national event brought together key professionals from the hospitality industry, government bodies, academia, and the fire and security sectors. The primary focus of the conclave was to address critical themes including fire safety, advanced security systems, statutory compliance, risk management, and emerging structural challenges within modern hospitality establishments. The technical segments featured expert-led panels and presentations covering global safety standards, statutory compliance challenges, smart security systems, active threat management, and the implementation of NBC and NFPA building codes.



The conclave concluded with an awards ceremony recognizing hospitality organizations and educational institutions for their outstanding contributions to fire safety, security, and professional excellence. Don Bosco College of Engineering, Fatorda, was among the select institutions honoured

for its active participation and leadership in FSAI Student Chapter activities. The award was proudly received on behalf of the institution by Dr. Suraj Marathe, Head of the Mechanical Engineering Department, alongside Dr. Ajit Salunke and Mr. Aniket Naik, the FSAI DBCE Student Chapter Coordinators.

MECHANICAL ENGINEERING FACULTY SPARK SCIENTIFIC CURIOSITY THROUGH VIDNYAN DHARA 2026

As part of Vidnyan Dhara 2026, a flagship science outreach initiative of the Goa State Higher Education Council (GSHEC) and the Directorate of Higher Education (DHE), faculty members from the Mechanical Engineering Department of Don Bosco College of Engineering (DBCE) conducted a series of engaging guest lectures across schools in Goa, aimed at nurturing scientific curiosity and technological awareness among young learners.

Dr. Suraj Marathe, Associate Professor, delivered sessions on “How Robots and Humans Team Up: Simulation in the Era of Industry 5.0” at PM Shri Government High School, Balli, Quepem, and Government High School, Zambaulim, Sanguem. Through interactive examples, he introduced students to collaborative robots (cobots), simulation technologies,

and the emerging human-centric approach of Industry 5.0, highlighting the importance of creativity, problem-solving, and ethical thinking in future technologies.



Associate Professor Dr. Ajit Salunke conducted lectures on “Smart Technologies for Industry 4.0” at PM Shri Kendriya Vidyalaya 1, Vasco, and “Humanoid Robots – The Future of Artificial Intelligence” at Infant Jesus School and St. Thomas School, Cansaulim. His sessions explored smart factories, the Industrial Internet of Things (IIoT), virtual and augmented reality, additive manufacturing, and the growing role of AI-powered humanoid robots in transforming industries and everyday life.

Through engaging presentations, videos, and real-world examples, the faculty successfully inspired students to explore emerging technologies and envision future careers in science and engineering.

DBCE FACULTY GUIDE STUDENTS ON ENGINEERING CAREERS IN THE ERA OF INDUSTRY 4.0

To help high school students explore future career paths, faculty members from Don Bosco College of Engineering (DBCE) recently conducted a series of insightful "Career in Engineering" seminars across various schools in Goa.

Ajit Salunke, Associate Professor in the Mechanical Engineering Department, delivered engaging talks titled “Career Options in Mechanical Engineering in the 4th Industrial Revolution” for 11th-standard students at Bloomz International School, Nuvem on February 6, 2026 , and PM Shri Kendriya Vidyalaya 2, Vasco Da Gama on February 11, 2026.

During these presentations, Dr. Salunke introduced students to the broad areas of mechanical engineering and its growing career opportunities. Highlighting recent trends, he discussed robotics, electric vehicles, 3D printing, and smart manufacturing. He also explained how smart technologies like the Internet of Things (IoT), Artificial Intelligence (AI), and Machine Learning are transforming modern industries. Both sessions concluded with an interactive Q&A, giving students the opportunity to clarify their doubts.

In a similar initiative, the Parent Teacher Association of Mahila & Nutan High School, Margao, organized a "Career in Engineering" seminar for their 10th-standard students on April 16, 2026. The session was led by a panel of DBCE faculty members: Dr. Ajit Salunke, Prof. Satyesh Kakodkar, Dr. Shreyas Simu, and Prof. Viosha Cruz. The speakers introduced core disciplines like Mechanical, Civil, Electronics, and Computer Engineering, outlining their key domains and career prospects. Students also learned about emerging trends such as green buildings, electric vehicles, and the evolving roles of engineers amidst the rise of Industry 4.0 technologies



INSPIRING FUTURE INNOVATORS THROUGH CAMPUS VISITS

To spark an early interest in technical education and emerging technologies, Don Bosco College of Engineering (DBCE) recently hosted students from local high schools for immersive half-day campus visits. These guided tours offered young minds a thrilling, firsthand look into the dynamic world of engineering.

On January 23, 2026, the Mechanical Engineering Department welcomed students from Balram High School, Canacona. The day kicked off with an introductory session on diverse career opportunities led by Dr. Suraj Marathe, Dr. Gaurang Patkar, Ms. Sweta Morajkar, and Dr. Chetan Gaonkar.

Students then embarked on an extensive guided tour of the campus laboratories. They explored automobile systems with Mr. Anish Bandekar and Mr. Joyston Menezes, and witnessed live machining at the CNC Milling and Turning Centre guided by Mr. Gaurish Samant and Mr. Diptesh Naik. Workshop Superintendent Mr. Sanjeel Naik also provided practical insights into welding and machining techniques. A major highlight for the students was a live 3D printing demonstration at the Prototyping Laboratory, facilitated by Mr. Sidhant Panjekar and Mr. Vignesh Prabhu from the Goa State Innovation Council.



Later in the term, on March 20, 2026, DBCE hosted students from Sarvodaya High School, Usgaon. Coordinated jointly by the Mechanical and Civil Engineering Departments, the visit began with an inspiring career talk by Dr. Suraj Marathe and Prof. Satyesh Kakodkar.

Both school visits culminated in a motivating, interactive session with DBCE Principal Dr. Neena Panandikar and Director Fr. Wilfred Fernandes. They provided valuable guidance for the students' academic journeys, encouraging them to strongly consider engineering as a rewarding future career path.

INDUSTRY COLLABORATION

INDUSTRY MOU

DBCE PARTNERS WITH CABE SPRINGS AND FASTENERS INDIA PVT LTD



To strengthen industry-institute ties, Don Bosco College of Engineering recently signed an MoU with Cabe Springs And Fasteners India Private Limited, a prominent manufacturer of precision industrial components and appliance parts based in Verna. The agreement was signed by Mr. Pietro Aldeghi (General Manager, Cabe Springs) and Dr. Neena Panandikar (Principal, DBCE), in the presence of Ms. Arya Hegde (Executive- HR & Procurement, Cabe Springs) and Dr. Suraj Marathe (HOD, Mechanical Engineering).

STRATEGIC COLLABORATION WITH GOA SHIPYARD LIMITED



DBCE has signed an MoU with Goa Shipyard Limited (GSL), a premier public-sector defence shipbuilding yard on India's west coast, to enhance industrial exposure and technical training for students. The signing ceremony was attended by Mr. Shashikant Kamble (Head of HR, GSL) alongside the DBCE team, which included Principal Dr. Neena Panandikar, Mechanical HOD Dr. Suraj Marathe, Dr. Ajit Salunke, and Prof. Sanjeel Naik.

STUDENT CORNER

FAREWELL

BE MECHANICAL FAREWELL 2026

The farewell ceremony for the graduating Mechanical Engineering students of Don Bosco College of Engineering was celebrated on 2nd June 2026. Held in the college auditorium, the event was organized to honour the outgoing batch, celebrate their academic journey, and bid them a warm goodbye as they step into the next phase of their lives.



The official program commenced with Dr. Suraj Marathe, Head of the Mechanical Engineering Department, urging students to carry forward three essential values: communication, commitment, and choices. Principal Dr. Neena Panandikar then wished the graduating batch success, encouraging them to stay connected with the college as they build their careers. Additionally, several faculty members and students took the stage to share their personal experiences, fond memories, and heartfelt words of advice for the outgoing class.

A major highlight of the ceremony was the presentation of awards to recognize outstanding individuals. Mr. Elden Rodrigues was honoured with the title of Best Outgoing Student for his exceptional performance and character throughout his engineering journey. Additionally, Mr. Sanath Bharne received the prestigious Most Distinguished Alumni award for 2026, recognizing his notable achievements and on-going support for the institution.

After the formal addresses and awards, the atmosphere shifted to a vibrant celebration. The junior students organized engaging games and lively musical performances, bringing plenty of smiles and laughter to the audience.

The ceremonial cutting of the farewell cake served as a fitting conclusion to the main event. As the afternoon wrapped up, students spent time taking photographs, sharing memories, and exchanging warm goodbyes with their peers and professors. The farewell was a memorable success, leaving the graduating batch with fond memories of their time at their alma mater.



STUDENT ACHIEVEMENTS

DBCE STUDENTS EXCEL IN ISHRAE AQUEST 2026 NATIONAL FINALS

Raul Baracho and Mystyn Gracias from the Mechanical Engineering Department represented the DBCE ISHRAE Student Chapter in the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) AQUEST 2026 HVAC-R Quiz Competition. The team successfully progressed through multiple stages of the competition. They first qualified at the Chapter Level round and secured Second Place at the West Zone Quarter Finals held in Nashik. They then participated in the Semi-Finals held at Pimpri Chinchwad College of Engineering, where they finished among the Top 6 teams, thereby qualifying for the National Finals.



The National Finals were conducted on 13th March 2026 in Mumbai during ACREX 2026, one of the largest exhibitions and conferences in the HVAC&R industry. At the finals, the students successfully progressed to the elimination round, competing against top teams from across the

country. Although they did not advance further to the Grand Finale, their performance at the national stage was commendable.

MECHANICAL ENGINEERING STUDENTS LEAD DBCE TO GOLD IN GOA UNIVERSITY TENNIS CHAMPIONSHIP

Roland Fernandes and Deion Braganca Pereira, final-year Mechanical Engineering students, delivered a stellar performance as part of the Don Bosco College of Engineering (DBCE) team at the Goa University Inter-College Tennis Competition. Displaying exceptional skill and sportsmanship throughout the tournament, the duo helped propel the college team to a historic championship victory, securing the coveted gold medal



The team's journey to the top was marked by a series of dominant performances against formidable opponents. DBCE kicked off their winning streak with a decisive victory over Goa Medical College in the Quarter-Finals, followed by a hard-fought win against St. Joseph College in the Semi-Finals. In a high-stakes final showdown, the team defeated PCCE to claim the championship title, bringing immense pride to the department and the institution.

ALUMNI INTERVIEW

ALUMNI PROFILE: AN INTERVIEW OF MR. SANATH BHARNE

Interview and Transcript by Mr. Shuban Dessai

Earlier this month one of our students Mr. Shuban Dessai had the opportunity of interviewing Mr. Sanath Bharne, alumni of Department of Mechanical Engineering, Don Bosco College of Engineering.



Shuban: Looking back at your time in our department, what milestones are you most proud of?

Sanath: Looking back, there are three major milestones I am most proud of.

First, securing my first job through campus placements before graduation. I wasn't the top student academically, but the placement team, especially Prof. Sachin and Prof. Avila who really guided me and helped me cross that finish line.

Second, getting a rare opportunity to intern at the Zuari Bridge Project right after my first year. The college actually went out of its way to make an exception for me, which gave me incredible hands-on technical exposure very early on.

Finally, starting my MBA journey. After working as a design engineer for three years, Sachin Sir encouraged me to think bigger and take the leap into management studies. It marks a huge new chapter for me, and I'm excited for what lies ahead.

Shuban: Part of your degree shifted online due to the COVID-19 lockdown. What were the biggest technical and logistical challenges you faced while studying remotely?

Sanath: To be honest, apart from adapting to online learning and technology, I did not face any major challenges. The department and our professors provided excellent support throughout the period, ensuring that our learning continued smoothly. Their efforts made the transition much easier for all of us.

Shuban: You have worked at two different companies since graduating. What specific values or lessons from college helped you adapt to these different workplaces?

Sanath: Honesty & discipline is something that was engraved within us a part of teaching by all our professors and that is something that I felt was most helpful in both my job roles.

Shuban: Looking back at your first few years in the industry, what is the most significant professional lesson you have learned so far?

Sanath: Always have answers! Sometimes given tasks are impractical so you got to be practical to handle it and accept it as is. Never lie! Always have the latest updates of your job. In corporate people need information to act so they expect their subordinates to give them that information negative or positive doesn't matter much.

Shuban: What was the driving force behind your decision to leave the corporate workforce and go back to college for further studies?

Sanath: To pursue Bigger paychecks, bigger responsibilities and better leadership positions so i can put my judgement to the best of use.

Shuban: Outside of your career, you are a passionate poet and social activist. How did your interest in creative writing and community work initially develop?

Sanath: I belong to a family of artists, writers and culturally and linguistically woke people so my inclination was quite natural. I have never pursued it as anything different than a way of life.

Shuban: How do you manage to balance a demanding professional career with your commitments to social activism and writing?

Sanath: Well it's the other way around as I take time off for my professional commitments; poetry and social work is always on my mind. That's how i balance it.

Shuban: Based on your journey through college and industry, what advice would you give current students on preparing for the professional world?

Sanath: If making money is important for you. Find a place that is already making a lot of it. The road less taken is usually less taken for a reason so unless you are passionate about the road, stick to a targeted approach.

Shuban: To wrap up, if you could summarize your journey from a student here to where you stand today in a single core philosophy or line of poetry, what would it be?

Sanath:

जें मनाक , जाय शें जाता
मेळत कशें? मेळत कशें?
इत्सेचें बळ जाय, पयस ना तें!
~उदय भेंभ्रे

Meaning - Whatever the heart longs for,

How do we attain it? How do we make it ours?

All it takes is the power of will—

And what you seek is never far away!