



Blueprint

Civil Engineering Department's Newsletter

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Inside this issue

Student Corner

- CESA
- Students Chapters
- Workshops/Seminars/In-house Trainings
- Expert Talks
- Field Visits
- Achievements & Felicitation
- Training & Placement

Faculty Initiatives

- Paper/ Journal Publications
- Paper Presentation
- Workshops / Seminars / Expert Talks Conducted
- Workshops/ Seminars / Expert Talks Attended

Testing and Consultancy

Upcoming Events

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.

STUDENTS CORNER



CIVIL ENGINEERING STUDENTS ASSOCIATION (CESA) 2016-2017

The installation of the new Civil Engineering Students Association (CESA) Council for the academic year 2016-17 was held on 12th August 2016, in the esteemed presence of the Chief Guest, Consulting Engineer- Shri. Krishna A. Sahakari, Director- Rev Fr. KinleyD'Cruz, Principal & HOD Dr. Neena S. P. Panandikar & Coordinator Prof. Jeffrey Valadares.

Speaking on the occasion, Shri. Krishna Sahakari congratulated the newly elected Council and rendered his help in guiding the students. He also suggested having a mentoring session for the students in collaboration with the Association of Consulting Civil Engineers (ACCE) where they would receive guidance in choosing the field for their higher studies. Er. Sahakari in his presentation also revealed numerous fields in Civil engineering that have taken the lead over the years. The new CESA Council is headed by Mr. Kohen Duarte from third year Civil Engineering. During the latter half of the day, events such as Quiz, Photography competition and Debate were held for the students.

INAUGURATION OF ICI – DBCE STUDENTS CHAPTER



The Students Chapter of Indian Concrete Institute - Don Bosco College of Engineering was inaugurated on 10th October 2016 under the Chairmanship of Mr. Gaurav Dessai a student of Third year Civil Engineering. Er. Chandrasekhar Prabhudessai, Chairman of Indian Concrete Institute –Goa Chapter was the Chief Guest on this occasion, Er. Vania Vas, the Secretary of Indian Concrete Institute –Goa Chapter was the Guest of Honour. Speaking on the occasion, the chief guest elaborated the benefits of the student's chapter and stressed on a need of taking maximum benefits of activities organized by ICI. He further spoke about the e-portal and e-

module of ICI. Er. Vania Vas in her address congratulated the college authorities for starting the student's chapter and extended support from ICI Goa. Lastly 66 members of ICI were distributed the membership certificates at the hands of Guests.

ENGINEER'S DAY CELEBRATION

On the 15th September 2016, the Department of Civil Engineering, Don Bosco College of Engineering along with CESA (Civil Engineering Students Association) celebrated Engineers' Day. The Chief Guest for the event was Mr. K Rajkumar, Construction Manager (Planning and Logistics) at Larsen and Toubro Private Limited. The welcome speech was delivered by Mr. Shwetang Nadkarni from SE Civil. Principal, Dr. Neena Panandikar addressed the gathering on the occasion. The Chief Guest presented details regarding an ongoing project of Cable Stay Bridge across the river Mandovi in Panjim. He further informed the students on what the industry expects from a graduate engineer.

WORKSHOPS/ SEMINARS/ IN-HOUSE TRAININGS

SAP 2000 WORKSHOP



A workshop on Structural Analysis Program, SAP2000 was conducted on 06th and 13th August 2016 for the B.E Civil students. The students were taught to model a concrete beam, its analysis and interpretation. They were taught various options of loading (point force, uniformly distributed loads, trapezoidal loads), support conditions, material properties, defining frame sections, load cases and analysis options. They were also acquainted with interpreting the post analysis results, viz. shear force, bending moment and axial force in the beam. Assignments were given to students based on the topics taught for the day. On the second day of the workshop, modelling of steel portal frames with grid as well as pre-defined option was demonstrated. Frames with various support conditions, loads (horizontal loads, etc.), material properties and frame sections (importing frame sections from database) were covered. They were later given a task to model a two dimensional truss subjected to joint loads and interpret the results. The students actively participated in this workshop. Prof Rochelle Mesta and Prof Nadya Baracho from Civil Engg Dept. - DBCE co-ordinated the workshop.

ONE DAY WORKSHOP ON CONCRETE MIX PROPORTIONING



The Department of Civil Engineering at Don Bosco College of Engineering in Collaboration with UltraTech Cement organized a one day workshop on Concrete Mix Proportioning for the students of second year Civil engineering on 2nd September 2016. In his presentation, Shri. Ashok Reddy-Regional head Technical Services, Ultra Tech Cements, explained to the

students the basic concept of Concrete making. He also highlighted the properties of concrete and stressed on the importance of maintaining a proper water cement ratio while making concrete. Shri. Vikrant Dessai-Technical Officer Ultra Tech Cement explained the process of Concrete Mix designing to the student's. He also solved an example and got the students to actively participate by giving them problems to solve for various grades of concrete mixes.

EXPERT TALKS

“GATE PREPARATION” BY Mr. Darius Barreto

Lecture on preparation for Graduate Aptitude Test in Engineering (GATE) was organised for the Second year Civil Engineering students on 16th July 2016. Mr. Darius Barreto was the key note speaker. In his talk Mr. Darius briefed the students on importance of higher studies, preparation for GATE and the various options available after graduation in fields of academics and Jobs. He spoke on the pattern of examination and scheme of marking at the GATE exam. He also enlightened the students on the various training centres present in India for GATE coaching and also shared some of his experiences on joining such classes.



“STRUCTURAL DESIGN CASE STUDIES” By Er. Shekhar Panandikar



A talk for the final year Civil Engineering students was organized on 13th August 2016 by the Department of Civil Engineering; Fatorda on “Structural Design-Case studies”. The key note speaker for the day was Er. Shekhar Panandikar the Consultant at Shekhar Panandikar & Associates, Margao-Goa. In his talk, Er. Panandikar briefed the students on the various case studies on Structural Design. He spoke on topics like Pad footing versus Trap footing, Combined footing, Drawings, Steel

staircase with suspenders, Composite structures, Pre-fabricated buildings, Industry buildings-Pharma, shells & slabs etc. Some of projects designed by him are BMW showroom & service center, Verna and residence of Mr. Roy Medeira at Majorda. These projects were selected as meritorious entries in the very first year of completion of ICI-Goa and were awarded Ultra Tech awards for outstanding concrete structure for Goa in 2011 and well-built residential Villa of Goa in 2011 respectively. In the end there was an interaction session between the speaker and the students where the students clarified their doubts.

“ENERGY MANAGEMENT AND AUDITING OF BUILDINGS” By Dr. Jagannath Hirkunde

The Civil Department of Don Bosco College of Engineering invited Dr. Jagannath Hirkunde-Head of Mechanical Department, PCCE on 06th August 2016 to deliver a talk on “Energy Management and Auditing of Buildings”. Dr. Jagannath Hirkunde spoke on the importance of the topic and its relevance in Low cost construction. In his talk Dr. Hirkunde explained the per capita energy consumption in India as well as in the developed countries. He also spoke on energy conservation and its importance, energy auditing and energy management opportunity (EMO). Further, he stressed on the importance and the numerous advantages of energy auditing in buildings. He concluded by explaining the energy consumption patterns of a commercial building and the team and procedure of energy auditing.

“VALUATION OF ASSETS” By Er. Thomas D’Costa



A Talk on “Valuation of Assets” was organized for B.E Civil engineering on 20th August 2016. The speaker Er. Thomas D’Costa is a leading valuator from Goa. In his talk, he explained the different terminologies related to Valuation giving different examples and explained various methods of valuation. Er. Thomas emphasized on the key elements of Valuation and the need of proper judgment before using any report. He also spoke on depreciation of assets and the methods used to calculate it. He also guided the students on writing of the valuation report. The talk ended with a Q&A session.

FIELD VISITS

- Second Year Civil Engineering students visited a Construction site of copperleaf, Fatorda & RMC plant, Nessai as a part of their curriculum in the subject Building Construction on 5th August 2016.
- Third Year Civil Engineering Students visited Park Regis Hotel located at Baga as a part of their curriculum in the subject of Building Drawing on 5th August 2016.
- Final Year Students visited the Sewage Treatment facility at Tonca- Panjim on 5th August 2016 as a part of their curriculum in the subject of Environment Engineering II & House of Goa-Museum and Nisha’s Play school located at Torda Salvador do Mundo on 01st October 2016, as part of their curriculum in the subject of Low Cost Housing.

ACIHEVEMENTS & FELICITATION

CULTURAL

Mr. GauravDessai, Mr. GauravKalangutker and Mr. Kohen Duarte were awarded 2ndplace for All Goa Inter-Collegiate Patriotic Singing Competition organized by the Cultural council of VVM's Shree Damodar College of Commerce and Economics on 28th August 2016.

SPORTS

Mr. Aman Naik from S.E civil was awarded 3rd place in Taekwondo held at Goa University on 27th September 2016. Students have also actively participated in Sports activities such as Badminton, Judo, Chess, and Table tennis, Taekwondo, Tennikoit and Swimming conducted by Goa University.

TECHNICAL

- Students of Civil Engineering Secured 1st place in the technical festival 'X-CARVE' conducted by Agnel Polytechnic Institute, Verna-Goa.
- Mr Gaurav Desai was awarded a scholarship for scoring highest marks in the subject of Concrete technology on 17th Sept 2016 during Concrete Day Celebrations by ICI- Goa Chapter and Ultra Tech Cements Pvt Ltd.
- Miss. Ayesha Assoldekar, Mr. Siddhant More, Miss. Antara Naik, Mr. Uddhav Naik, Mr. Saiesh Shirgaonkar & Prof Swaroopa Sail presented paper In International conference Advances in concrete technology materials and construction practices-' replacement of coarse aggregate in concrete by pebbles'
- Mr Suhail Shaikh, Mr Umaji Redkar, Mr Nikhil Pagi, Mr Ankalesh Phaldesai, Mr Narayan Narvekar & Prof Shruti Desai presented and published paper In International conference Advances in concrete technology materials and construction practices-' Study of suitability of use of washed marine sand in concrete.
- Miss Saima Bi , Miss Supreetha Babu, Mr. D'Souza Bryan, Mr Khalil Fernandes, Mr Omkar Komarpant, Mr Neal Lotlikar, Mr Sumit Naikdesai, Mr Geet Sail, Miss Shaikh Asfiya along with Prof Jeffrey valadares and Prof Glancia Fernandes attended International Geotechnical Engg Conference on Sustainability in geotechnical Engg practices and related urban issues organised at IIT Mumbai and visited laboratories in IIT Powai in Civil engg and earth science departments
- Miss Eleane Da Costa, Miss Sanchita Sawant, Mr Nagesh Sawant Talaulikar, Mr Varad Gaonkar & Prof Satyesh Kakodkar presented paper in International Conference on Soil and Environment , Bangalore- 'Utilisation of solid waste as a filler material in roads'
- Dr P Shwetha, Miss Ganga Kalival, Miss Krutika Desai, Miss Radhika Kavlekar, Mr Mazhar Shah, Mr Siddharth Lambor presented paper at International conference on Advances in concrete technology materials and construction practices- ' Technical analysis of geo polymer concrete with ordinary concrete'

MERITORIOUS STUDENTS FELICITATION

The second batch of the Civil Engineering students was felicitated on 15th September 2016. The Chief Guest for the function was Mr. K Rajkumar, Construction Manager at Larsen and Toubro private limited. All the distinction holders were felicitated and awarded a silver coins for their meritorious performance. The department had total 18 distinction holders out of 72 students.

TRAINING & PLACEMENT

The civil engineering department maintains a vibrant industry-academia relationship and the suggestions of the experts are taken as tools for its continuous improvement. All the third year students undergo a 1 month Internship Program under the guidance of experience professionals. This is to bridge the gap between education and Industry. As a part of the educational process the department also organizes an outstation industrial visit.

A number of past students of the college are now occupying highly responsible positions in various reputed and prestigious organizations including Decathlon, Neat Solutions, Agarwal Group, Cement & Metal Kraft, AVR, and Salkar Associates. A total no of 29 students were placed from the June 2016 batch having an average salary of 1.57 Lakhs p.a

FACULTY INITIATIVES

PAPER/ JOURNAL PUBLICATIONS

- Dr. NeenaPanandikar published a journal paper on “Modal Analysis of Simply Supported Sandwich Beam” in the International Journal of Research in Engineering and Technology, Volume 5, Issue 6, 2016.
- Dr. NeenaPanandikar published a journal paper on “Sensitivity Analysis to assess Vibrational response of sandwich beams using response surface methodology” in the International Journal of Research in Engineering and Technology, Volume 5, Issue 13, 2016.
- Dr. NeenaPanandikar presented a paper on “Civil Engineering for sustainable development” at the 32nd National Convention of Civil Engineers on ‘Role of Civil Engineering for sustainable development’ organized by The Institution of Engineers (India) at Goa State center on 21st and 22nd October 2016.
- Dr. NeenaPanandikar published a paper on “Stochastic analysis to assess the performance of Pelton wheel test rig keeping speed constant” and on “Stochastic analysis to assess the performance of Pelton wheel test rig keeping head constant” at the International Conference on Recent Advances in engineering science (ICRAES- 2106) held on 8th & 9th September 2016. The papers have also been accepted for publication at the International Journal of Research in Engineering and Technology
- Dr. ShwetaPrasanna published a paper on “ Technical Analysis of Geopolymer Concrete with ordinary concrete” at the International Conference on Advances in Concrete Technology Materials & Construction Practices, CTMC 2016 held at GEC Farmagudi on 23-24 June 2016
- Ms. Swaroopa Sail published a paper on “Replacement of aggregates in concrete by pebbles” at the International Conference on Advances in Concrete Technology Materials & Construction Practices, CTMC 2016 held at GEC Farmagudi on 23-24 June 2016

PAPER/ JOURNAL PRESENTATION

- Ms. GlanciaFernandes presented a paper at the National Geo-Research Scholars Meet 2016 held at Wadia Institute of Himalayan Geology, Dehradun on 1-4 June 2016.
- Ms. Shruti Desai presented a paper at the International Conference on Advances in Concrete Technology, materials and construction practices (CTMC 2016) held at GEC, Farmagudi on 22nd to 24th June 2016.
- Dr. Shweta Prasanna presented a paper at the International Conference on Soil and Environment, ICSE 2016 held at IISc Bangalore on 22-23 July 2016

- Mr. Satyesh Kakodkar presented a paper at the International Conference on Soil and Environment, ICSE 2016 held at IISc Bangalore on 22-23 July 2016
- Dr. Shweta Prasanna presented a paper at the 10th International Symposium on Lowland Technology, ISLT 2016 held at NITK, Surathkal on 15-17 Sept 2016.

WORKSHOPS/SEMINARS/EXPERT TALKS CONDUCTED

- Ms. NadyaBaracho and Ms. Rochelle Mesta conducted a 2 day workshop on SAP 2000 for the B.E Civil Students on 6th and 13th August 2016.
- Ms. Starina Dias conducted a 1 day workshop on Concrete Mix Proportioning for the S.E Civil Students on 2nd Sept 2016.
- Dr. NeenaPanandikar organised a 1 hour talk on “GATE preparation” by Mr. Darius Barreto on 16th July 2016 for S.E Civil Students.
- Dr. NeenaPanandikar organized an expert talk on “Structural Design Case Studies” by Er. ShekharPanandikar for B.E Civil Students on 13th August 2016.
- Mr. Satyesh Kakodkar organized a talk on “Valuation of Assets” by Er. Thomas D’Costa for the B.E Civil students on 20th August 2016.
- Ms. Starina Dias conducted a 1 day workshop on “Making of Quality Concrete” in collaboration with Ultra tech Cement for Industry Participants on 20th November 2016.
- Ms Annapurna Sakhardande organized a talk on “Energy Management and Auditing of Buildings” by Dr Jagannath Hirkude on 6th August 2016.

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Ms. NadyaBaracho attended a conference on Geo synthetics applications in infrastructure development held at IIT Gandhinagar on 14-15th July 2016.
- Ms. NadyaBaracho attended a conference on Geo synthetics in water resources held at IIT Gandhinagar on 16th July 2016.
- Mr. Jeffery Valadares attended a conference on Geo synthetics applications in infrastructure development held at IIT Gandhinagar on 14-15th July 2016.
- Mr. Jeffery Valadares attended a conference on Geo synthetics in water resources held at IIT Gandhinagar on 16th July 2016.
- Mr. Jeffery Valadares attended an International Geotechnical Engineering Conferences on Sustainability in Geotechnical Eng. Practices and related Urban Issues organized by Indian geotechnical Society on 23rd-24th Sept 2016.

TESTING & CONSULTANCY

The department offers its service to the construction industry to carry out various routines and specialized test on materials like cement, concrete, aggregates, tiles and soil. We also undertake designing of various structures and proof checking of drawings for private, semi government and government agencies. The department has generated revenue of 2 Lakhs between June to December 2016 and total 12.5 Lakhs of revenue till date.

UPCOMING EVENTS

- Two Days National Seminar on “Advances in Structural Engineering” on 10th & 11th February 2017.
- 1 week TEQIP-ISTE workshop on “Advances in Concrete technology” on 26th to 30th June 2017
- 2 day Intercollegiate Technical Fest “Sankriti 2017” in February 2017.