

Luminoso

Science and Humanities Department's Newsletter

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VISION

To build a stairway, empowering engineering dreams to success, broadening intellectual perspectives, fostering research and developing ethical humane engineers for the global world.

MISSION

To achieve academic excellence through intellectual pursuits, promoting research abilities, implementing innovation through a multidisciplinary approach towards technological advancements.

Fostering team spirit, professional conduct, personality development and building skilled human resource.

Striking a balance between nurturing the environment and technological advancements.

DEPARTMENTAL DETAILS

The Department of Science and Humanities offers courses in Engineering Mathematics, Physics, Chemistry, Technical English, Social Science and Managerial Economics. These courses enhance the applicative aptitude of the students in various branches of engineering.

The faculty are involved in developing the aptitude and curriculum based knowledge of individual students. Students are encouraged

to contribute towards intensifying their respective professional strengths and inter - personal skills under the banner of the association 'SEEDS'.

The following are the details of the faculty in the department for the semester:

Sr. No.	Name	Qualification	Experience (Years)	Designation	Area
1	Mr. Harison Cota	M.Sc. (Physics), SET	13	Asst. Prof., HOD	Electronics, Robotics
2	Mrs. Natasha D'Souza e Jaques	M.Sc. , M.Phil. (Mathematics)	11	Asst. Prof.	Matrix Differential /Integral Equations, Graph Labeling.
3	Mrs. Gladys Godinho D' Silva	M.Sc. (Inorganic Chemistry)	29	Asst. Prof.	Corrosion Chemistry, Surface Chemistry, Fuel Cells
4	Mrs. Vaishali Parakhi	M.Sc. (Mathematics)	14	Asst. Prof.	Matrix Differential Equations, Kronecker product, Graph Theory
5	Ms. Roseline Fernandes	B.E.(Computer), MBA	11	Asst. Prof.	Cyber Security, Software Engineering
6	Ms. Jyoti Lewis	M.A., MPhil (English)	16	Asst. Prof. (contract)	Creative Writing
7	Ms. Zebalda Vas	M.Sc. (Mathematics)	1	Asst. Prof. (contract)	Function Analysis, Measure Theory
8	Ms. Glancia Fernandes	M.Sc. (Geology)	05	Asst. Prof. (contract)	Sedimentology
9	Ms. Grebian Alemao	M.A (Psychology)	06	Counselor	Counseling Psychometric Testing
10	Mrs. Maya Lin Noronha	M.A. (Counselling Psychology)	05	Counselor	Counseling Psychometric Testing

The department also has a support staff Ms. Samprita Ghadi working as a Lab Assistant in the Physics and Chemistry Laboratories.

The department has two laboratories -Physics Laboratory and Chemistry Laboratory.

Physics Laboratory- Physics being an integral part in Engineering and Technology creates awareness for the students to understand the fundamental concepts of Engineering and Technology. In brief, it lays a foundation in which the students want to excel in their own field of interest.



Chemistry Laboratory- The need for Chemistry in engineering is conveyed to the students in the form of theory classes as well as helps the students enhance their practical skills.



Research also forms an integral part of the development of the Department of Science and Humanities.

STUDENTS CORNER

STAIRWAY TOWARDS EMPOWERING ENGINEERING DREAMS TO SUCCESS (SEEDS) 2016-2017



- The fourth Council Inauguration of SEEDS was held on 6th August 2016 in the presence of Mr. Prajyot Mainkar, CEO- Androcid Media Pvt. Ltd. A video making contest on Environmental Issues and a technical treasure hunt was conducted. The best video prize was bagged by the students from first year electronics and telecommunication engineering and the technical treasure hunt was won by the first year civil engineering students.
- In order to commemorate “Azaadi 70” “Independence 70” from 9th to 23rd August 2016, as per the Government directive issued by the Human Resource Development Ministry, Don Bosco College of Engineering, Fatorda, had organized an Essay Competition under ‘SEEDS’ for the first year students, on the theme “Yaadkaro Qurbani”.The topic for which was “The Immortal Sacrifices of Our Freedom Fighters.” The result of which is as follows:
 1. First Prize: Shane Mazarelo, (F.E. Mechanical Engineering)
 2. Second Prize: Reuben Gouveia, (F.E. Mechanical Engineering)
 3. Third Prize: Steven Fernandes, (F.E. Mechanical Engineering)
- On 1st October, 2016 the first year students of Don Bosco College of Engineering were taken to Mormugao Port Trust for a field visit under the SEEDS banner.

INAUGURATION OF SEEDS – DBCE STUDENTS CHAPTER



The first year student association SEEDS (Stairway Towards Empowering Engineering Dreams to Success) of Don Bosco College of Engineering was inaugurated and a new student council instituted on 6th August 2016 in the presence of Mr. Prajyot Mainkar, CEO- Androcid Media Pvt. Ltd., Director Fr. Kinley D'Cruz, Principal Dr. Neena Panandikar, Youth Animator- Fr. Marvin Vaz, Prof Harison Cota – Head of Department and Coordinator Mrs Vaishali Parakhi. The event was an initiative to bridge the gap between higher secondary education and the rigorous engineering curriculum the students must get accustomed to.

Speaking on the occasion, the Chief Guest Mr. Mainkar encouraged the students to put their technical ideas into flight by showcasing their innovations. He encouraged them to blog about their technical experiences so that people around the world are aware of their technical expertise. Earlier, the Director Fr. Kinley DCruz invited the students to be at the centre stage where action takes place rather than being mere spectators. Prof. Vaishali Parakhi introduced the new student Council

Chairperson- Subrata Rai

Secretary - Nathan Dias

Treasurer – Ashwin Faldessai

Executive Members – Reuben Gouveia, Lino Dias, Pablo Mascarenhas, Danira Vaz

Ms. Rai outlined the plans for the year including community initiatives to promote education among the rural folk. Earlier, speaking on the occasion, Principal Dr. Panandikar congratulated the first year students for their enthusiasm and invited them to participate in the various activities lined up for them besides their curriculum.

A video making contest on Environmental Issues was conducted before the inaugural and the best three videos were showcased during the event. The best video prize was bagged by the students from first year electronics and telecommunication engineering. Following the inaugural, a technical treasure hunt was conducted which was won by the first year civil engineering students. The event was compered by Ms. Lisandra and Mr. Reuben Gouveia and Mr. Nathan Dias proposed the vote of thanks.

FIELD VISITS

On the 1st October, 2016, the first year students of Don Bosco College of Engineering , Fatorda, were taken to Mormugao Port Trust for a field visit organized under the ‘ SEEDS’ banner. The students were accompanied by the following staff members of the Department of Science & Humanities and the Department of Computer Engineering: Asst. Prof. Vaishali Parakhi, Asst. Prof. Natasha D’souza e Jaques, Asst. Prof. Gladys Dasilva, Asst. Prof. Zebalda Vas, Mrs. Maya Lin Noronha, Ms. Samprita Ghadi, Asst. Prof. Amey Tilve and Asst Prof. Diana Miranda.

Following a long history since 1888, Mormugao Port is a protected open type natural harbour situated on the West Coast of India in the State of Goa. Mormugao Port Trust is protected by a breakwater and a mole built from the outer end of the breakwater and running parallel to the quay.

The Mormugao Port trust is the key trading point which has contributed immensely to the growth of maritime trade which is the leading iron ore exporting port of India with an annual throughput of around 27.33 million tons of iron ore traffic. The Mormugao Port trust has a total of 11 berths to carry out transportation of general cargo ships, non-cargo ships, ore ships and cruise ships.

The Union Secretary, Mr. Cruz Mascarenhas; Crane Operator, Mr. Pascoal Fernandes and Junior Engineer Mr. Vinod Verekar of Mormugao port trust welcomed the students along with the staff. The students were taken to berth no. 9 and 8 which handle iron ore cargo and liquid bulk. The students were then taken to the conveyor system, where they learnt how a conveyor actually works in transportation of heavy and bulky iron ore from the birth to a plot (ore dumping area) and vice versa, which would otherwise require extensive human labour proving to be strenuous and expensive.

Transhippers is essentially a large floating warehouse with an aft well dock to support material transfer operations from the feeder vessel which provides the major advantages in the form of environmental and economic improvements, in some cases, completely avoiding expensive dredging while minimizing the environmentally invasive onshore infrastructure were also shown to the students as a part of the field visit. There are four such transhippers viz. M.V. Orissa, M.V. Swati Rani, M.V. Maratha Deep & M.V. Priyamvada operated at the Mormugao Port Trust. All the other bulk Containers, Tugs and the process of barging in the water were shown as a demo to the students.

The students were also taken to berth no. 5,6,10 and 11 which handled general cargo and also cruise ships .The students were then taken to the Central Control Panel where all machineries across the Mormugao Port Trust are controlled. At the electrical plant, the students were briefed and informed that Mormugao Port Trust receives 33KV input, from which, is then stepped down to 3.3 KV for usage .

ACHIEVEMENTS & FELICITATION

CULTURAL

Vrunda Asolkar was awarded the third prize in the Swachh Bharat drawing competition organized by Upgrade for the event upgrade connect.

TECHNICAL

- The students Johan Godinho, Noah Gomes, Denilson Franco, Reuben Gouveia, Shane Mazarelo and Steven Fernandes attained the third prize at the TECHYON 2016 (Bridge Building Competition) organized by PCCE, Verna on 6th and 7th October 2016.
- The following students participated in the three day exhibition Kshitij 2016, organized by Don Bosco College of Engineering, Fatorda on 28th, 29th and 30th July 2016:
Reuben Gouveia, Sherwin Dourado, Johan Godinho, Nathan Dias, Saiesh Karwarkar, Vianney Furtado, Brandan Crasto, Nixon Coutinho, Lasandra Fernandes, Vranda Asolkar, Sherwin Colaco, Lino Dias, Vaylon Fernandes, Keith Pinto, Shriya Nayak, Sheetal Pharakate, Akshata Naik, Ashwin Faldesai, Divya Naik, Shruti Mauzo, Yash Ajgaonkar, Ibrahim Shaikh, Sunil Patil, Vaishakh Sanjeevan, Rohit Martires, Pablo Mascarenhas, Ansh Pathania and Joe Noronha.

The exhibits were based on the category “Science and Environment”. Professor Harison Cota was the faculty coordinator for the first year students.

Reuben Gouveia and Sherwin Dourado from F.E mechanical secured the first prize for a project on solar energy.

Shriya Nayak, Sheetal Pharakate, Akshata Naik and Ashwin Faldesai from F.E electronics and telecommunication secured the second prize for a project on Reed Switch.

Sunil Patil, Vaishakh Sanjeevan and Rohit Martires from F.E electronics and telecommunication secured the third prize for a project on FM transmitter.

FACULTY INITIATIVES

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Ms. Natasha Jaques and Ms. Vaishali Parakhi attended a short term course on Use of ICT in Education for Online and Blended Learning organized by IIT, Bombay on 2nd May 2016 – 13th August 2016.
- Ms. Jyoti Lewis attended a seminar on Case Method of Teaching organized by IBS Business School on 22nd September 2016.
- Mr. Harison Cota and Ms. Natasha Jaques attended a workshop on Improving Quality of Technical Education in Goa held at DTE, Goa on 11th November 2016.
- Ms. Roseline Fernandes attended a workshop on NBA Accreditation of Programmes, Guidelines and Quality Management held at NITTTR, Porvorim on 7thNov-11th Nov 2016.
- Prof. Natasha Jaques and Prof. Vaishali Parakhi are currently pursuing their Ph.D. in Mathematics through Assam Don Bosco University.

UPCOMING EVENTS

- Two full day events will be organized under the banner of SEEDS on 28th January 2017 and 25th March 2017.