

Luminoso

Science and Humanities Department's Newsletter

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VISION

To evolve as a focal point of excellence in the areas of basic sciences and humanities, bridging the gap between school and engineering education and inculcating humane values in budding engineers for the global world.

MISSION

- To impart quality education through theory and practice achieving academic excellence.
- To orient new students to engineering education by providing bridge courses.
- To impart value education and encourage extra - curricular activities and community outreach programs for individual growth and societal transformation.
- To create an awareness towards recent trends in sustainable technological innovation.

DEPARTMENTAL DETAILS

The Department of Science and Humanities forms an integral part of the first year engineering students as it lays the foundation for technical education wherein the ethos of Science and Technology prevails.

The Department of Science and Humanities offers courses in Engineering Mathematics, Applied Sciences (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 is 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 department has three laboratories - Physics Laboratory, Chemistry Laboratory and Language 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 and practical classes which helps the students to enhance their practical skills. Language Laboratory -The language lab is equipped with I-Tell Orell Digital Software (Premium P1) so as to improve effective communication through practical exercises.

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

STUDENTS' CORNER

ORIENTATION FOR FIRST YEAR ENGINEERING STUDENTS

An orientation program was conducted for the newly inducted students of First Year Engineering on from 2nd to 6th July 2018.

The purpose of the orientation program was to get the students accustomed to the 1st semester engineering subjects of Engineering Mathematics, Fundamentals of Electrical Engineering and Engineering Mechanics. The sessions were conducted using interactive audio visuals. The orientation was conducted by the following faculty:



Dr. Kala Nayak, Prof. Vaishali Parakhi & Prof. Natasha D'Souza e Jaques gave inputs in Engineering Mathematics. Prof. D.S. Vidhya, Prof. Kimberly Morais, Prof. Mathilda Colaco, Prof. Vishnu Rathod & Prof. Mohini Naik explained the importance and significance of Fundamentals of Electrical Engineering. Prof. B. Anirudha, Prof. Akshata Kudchadker & Prof. Jefferey Valadares spoke about Engineering Mechanics.

There was also a General Orientation session in which the students were welcomed and addressed by the Director Fr. Kinley D'Cruz. Principal, Dr. Neena S. Panandikar gave a presentation in which she highlighted the various undertakings and achievements at Don Bosco College of Engineering.

Dr. Kala Nayak, Registrar & HOD, Science & Humanities and Prof. Harison Cota, Deputy HOD, Science & Humanities Department then introduced the faculty and staff to the students. They also briefed the students about the syllabus and examination pattern.

The concluding session was on training and placement given by the Training & Placement Officer, Mr. Rajesh Gaonkar. The students were then taken for a tour of the college by Prof. Avila Naik and Prof. Sanford Mascarenhas.

ORIENTATION FOR PARENTS OF FIRST YEAR ENGINEERING STUDENTS

An orientation program was conducted for the parents of the newly inducted students of First Year Engineering on 6th July 2018 at 10am in the Auditorium.



Rev. Fr. Kinley D'Cruz, Director, welcomed the parents and gave a brief history of Don Bosco and the Salesian Society. He also told the parents about the expectations from students, especially with respect to dress code, identity card and discipline.

Dr. Neena Panandikar, Principal, gave a presentation highlighting the various activities taking place at Don Bosco College of

Engineering. Dr. Kala Nayak, Registrar, then gave information about the syllabus, examination system and scholarships.

This was followed by a presentation by Prof. Ajit Salunke, HOD, Mechanical Engineering Department, Prof. Michelle Viegas, HOD, Electronics and Telecommunication Engineering Department, Prof. Harison Cota, Deputy HOD, Science & Humanities Department, Prof. Annapurna Sakhardande, HOD, Civil Engineering Department, and Prof. Christina Barreto, Computer Engineering Department. In their presentations the heads highlighted the various undertakings and achievements of their respective department.

Prof. Gladys D'Silva proposed the vote of thanks. The orientation was compered by Prof. Roseline Fernandes. The parents were then taken around the campus by the faculty from the different departments. Around 200 parents attended the orientation program.

INAUGURAL OF FIRST YEAR ENGINEERING

An inaugural prayer service to invoke God's blessings for the new academic year 2018-19 was held at Don Bosco College of Engineering, Fatorda on 9th July 2018. The service began with a short presentation explaining the activities of the college. Scriptures from the Holy Quran, Bhagvad Gita and the Holy Bible were read by three students from the first year classes. Prof. Sanford Mascarenhas recited a prayer on behalf of the faculty and Mr. Shane Gomes from first year Mechanical Engineering said a pray on behalf of the students. A hymn was sung by the second year students.



The service was marked by the solemn lighting of the lamp by the Provincial – Rev. Fr. Felix Fernandes, Rector Rev. Fr. Paul D'Souza, Director Rev. Fr. Kinley D'Cruz, Principal Dr. Neena Panandikar, Registrar Dr. Kala Nayak, Rev. Fr. Julius Rasquina along with HOD of Mechanical Department and a first year student.

Speaking on the occasion, Rev. Fr. Kinley D'Cruz welcomed the first year students and spoke about our late President Dr. Abdul Kalam and how he loved children and teaching. In his address, he mentioned about the book written by Dr. Abdul Kalam, "Ignited Minds", where he wrote that people have power through hard work to realize their dream of a truly good life.

Rev. Fr. Felix Fernandes congratulated the students for having secured admissions at Don Bosco College of Engineering, Fatorda. He further spoke about mind, body and spirit and how the three should be integrated, emphasizing more on spirit, faith and the soul.

The Academic Calendar was released at the hands of Rev. Fr. Felix Fernandes and Rev. Fr. Paul D'Souza released the newsletter "Connections". Dr. Kala Nayak the Registrar and the HOD of the Science and Humanities, proposed the vote of thanks. The compere for the function was Prof. Maya Lin Noronha.

STAIRWAY TOWARDS EMPOWERING ENGINEERING DREAMS TO SUCCESS (SEEDS)

On the 25th of August 2018, the Department of Science and Humanities organized the Inaugural function of the SEEDS committee for the year 2018-19. The day-long event was divided into two sessions.



The first session was attended by the dignitaries of the college and the chief guest- Mr. Milind Anvekar, Vice president of Projects and Customer Services - Open Destinations. It began with a prayer song performed by the student choir. Prof. Natasha D'Souza e Jaques introduced the first year students' association- SEEDS, and said that Innovation will be the theme of the year. As a symbol of

nurturing the students the dignitaries then watered a plant and each were presented a sapling. The new students' committee members were introduced and the oath was administered by Prof. Gladys D'Silva. As appreciation for their efforts, the outgoing committee was gifted a token. Mr. Shivam Naik, the Chairperson of SEEDS, unveiled the plans for the academic year 2018-19.

The Principal, Dr. Neena Panandikar welcomed the dignitaries and encouraged the students to begin their journey of innovative thinking. Following this, the Director, Rev. Fr. Kinley D'Cruz inspired the students to walk on the less trodden path and motivated them to "dare to be different" by quoting the famous poem 'The Road Not Taken' by Robert Frost. Dr. Kala Nayak then introduced the Chief Guest, a man of great achievements: Mr. Milind Anvekar.

Mr. Milind Anvekar shared some of his innovative ideas which took the audience by awe. He stressed on three pointers:

- 1) Have the right attitude
- 2) Maintain an aptitude for problem solving
- 3) Develop soft skills

This was followed by prize distribution to the students who had won various competitions that were held in the year 2017-18. The vote of thanks was proposed by Mr. Nikhil Chinchawade, the Secretary of the SEEDS Council.

The second half began with a session on 'Constructive Innovation', by Mr. Raunak Hede, a std. XI student of Sharada Mandir School, who shared his experiences of robotic ventures. He also spoke about how constructive innovation is the need of the hour.

Events such as 'Win the rounds', a quiz on the curriculum and general knowledge and treasure hunt saw the students enthusiastically participate and score points for their respective classes. Post lunch, the students participated in 'Mime the Model', which was judged by Prof. Madhuraj Naik, Prof. Ramnath Prabhu Bam, Dr. Varsha Turkar and Prof. Manisha Faldessai.

FIELD VISIT

A total of 275 students of First year engineering under the banner of SEEDS visited the Hindustan Waste Treatment Plant, Saligao and the Museum of Goa, Pilerne. The state-of-the-art Solid Waste Treatment plant inaugurated in May 2016 is fully automated except for the sorting of dry waste which is a manual process. Mixed waste is dumped first onto the tipping floor and is then carried by a conveyor belt where manual monitoring and sorting is performed by trained workers. Following segregation, waste is categorized and provided with further treatment.

The plant is capable of treating 100 tonnes of waste per day and in addition to solid waste management also generates power. The plant is generating compost and treats effluents so as to use the recycled water for gardening and other non-drinking purposes. The plant is fully controlled and monitored via a



SCADA system and CCTV Cameras. Biomethanation technology is included as part of the process, which generates enough energy to power the plant and the surplus, is transferred to the neighboring villages.

At the museum, the students were lead to understand various artifacts that depicted the Goan Culture, the environment and many other aspects through the work of Dr. Subodh Kerkar. The students viewed an inspiring presentation in which Dr. Kerkar explained his journey from being a doctor to becoming a lover of art. He presented his work and explained every bit of art that show cased innovation.

ACIHEVEMENTS & FELICITATION

CULTURAL

- Ms. Priya Kamat from first year Electronics and Telecommunication Engineering participated in the Inter-Collegiate Elocution Competition on 31 July 2018 at Dnyanprasarak Mandal's College and Research Centre, Assagao.
- Ms. Samrudhi Mandurkar from first year Civil Engineering participated in the State Level Poster Making competition organized by Goa State AIDS Control Society at Urban Health Centre, Margao on 13 August 2018 based on the theme "SAFE SPACES FOR YOUTH" in three areas viz Public Spaces, Digital Spaces and Physical Spaces.

SPORTS

- Ms. Sheena Mashelkar from first year Computer engineering and Ms. Maria Delsy Mendes from first year Mechanical Engineering participated in Badminton organized by Goa University from 17 July 2018 to 21 July 2018.
- Ms. Vedangi Barve from first year Computer engineering participated in Table Tennis organized by Goa University from 24 July 2018 to 27 July 2018.
- Mr. Amey Tilve and Mr. Anish Naik from first year Mechanical engineering – 2 participated in Swimming organized by Goa University on 3 August 2018.
- Mr. Flint Leitao A. L. from first year Mechanical Engineering – 1 won the Bronze medal for Taekwondo organized by Goa University on 4th and 5th of September 2018.
- Mr. Willy Rodrigues from first year Electronics and Telecommunication engineering, Mr. Edward Fernandes from first year Civil Engineering, Ms. Skyilia Estibeiro from first year Electronics and Telecommunication engineering and Ms. Maria Delsy Mendes from first year Mechanical Engineering participated in Basketball for men and women respectively, organized by Goa University from 19th September 2018 – 21st September 2018.
- Mr. Alister Costa from first year Electronics and Telecommunication engineering, Mr. Mayran Dias from first year Mechanical Engineering and Mr. Jason Furtado from first year Civil Engineering participated in Football organized by Goa University on 27th September 2018.

TECHNICAL

- Mr. Shah Ahmed Chiragoddin of first year Electronics and Telecommunication Engineering was awarded the first prize for Kshitij 2018, Don Bosco “Project Expo” organized by Don Bosco College of Engineering, Fatorda, from 26th – 28th July 2018.
- Mr. Rajay Naik and Mr. Tejan Samant of first year Mechanical Engineering were awarded the second prize for Kshitij 2018, Don Bosco “Project Expo” organized by Don Bosco College of Engineering, Fatorda, from 26th – 28th July 2018.
- Mr. Adhiraj Gavas and Mr. Vedant Kerkar of first year Mechanical Engineering were awarded the third prize for Kshitij 2018, Don Bosco “Project Expo” organized by Don Bosco College of Engineering, Fatorda, from 26th – 28th July 2018.
- Mr. G. Saagar, Ms. Deepali Singh, Ms. Priya Ganesh Kamat, Ms. Saili Naik of first year Electronics and Telecommunication Engineering secured the first place in Quiz Competition held on 25th August 2018 under the SEEDS banner organized by the Science and Humanities Department, DBCE, Fatorda.
- Mr. Raj Telang, Mr. Yash Sukhthankar, Mr. Ronan Noronha, Mr. Tejan Samat of first year Mechanical Engineering secured the first place in Quiz Competition held on 25th August 2018 under the SEEDS banner organized by the Science and Humanities Department, DBCE, Fatorda.
- Mr. Sanath Bharne, Mr. Bradley Rodrigues, Mr. Keenan Cardozo, Mr. Pratik Kerkar of first year Mechanical Engineering secured the second place in Quiz Competition held on 25th August 2018 under the SEEDS banner organized by the Science and Humanities Department, DBCE, Fatorda.
- Mr. Wilander Soares, Mr. Shreeyash Shirodkar, Mr. Sriyash Salelkar, Mr. Sarvesh Rane, Mr. Clayton Pereira, Mr. Ketan Parsekar, Mr. Rutik Naik, Mr. Anand Kalasappanavar, Mr. Roosevelt Silveira of first year Mechanical Engineering secured the first place in Mime a Model held on 25 August 2018 under the SEEDS banner organized by the Science and Humanities Department, DBCE, Fatorda.
- Ms. Jaitali Kunkalkar and Ms. Urviya Taker from first year Electronics and Telecommunication Engineering and Ms. Lamiha Sayad from first year Mechanical Engineering attended a Workshop on ‘Financial Literacy Exclusively for Women Entrepreneurs’ organized by Women’s Wing of Goa Chamber of Commerce and Industry on 27th September 2018.
- 25 students of first year engineering attended a Familiarization exercise program on 5th October 2018 organized by National Disaster Relief Fund (NDRF) at Mathany Saldanha Administrative Complex, South Goa.
- 24 students of first year engineering attended the Goa IT Day on 14 and 15 July 2018 at Panaji organized by Department of IT, Government of Goa.

PROFESSIONAL CHAPTERS

The college has started a local chapter of National Programme on Technology Enhanced Learning (NPTEL) which provides e-learning through online Web and video courses in Engineering, Sciences, Technology, Management and Humanities.

The first year engineering student’s coordinators for NPTEL online courses are Parth Kushte from first year Civil Engineering, Vedant Kerkar from first year Mechanical Engineering, Ronan Noronha from first year Mechanical Engineering, Deepali Singh from first year Electronics and Telecommunication Engineering and Shivam Naik from first year Computer Engineering.

FACULTY INITIATIVES

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

- Prof. Gladys D'Silva, Prof. Natasha D'Souza e Jaques, Prof. Vaishali Rajendra Parakhi, Prof. Roseline Valerie Clara Fernandes, Prof. Avila Naik, Prof. Vikas Bhujle, Prof. Jyoti Lewis, Prof. Sanford Mascarenhas, Prof. Ulpa Waingankar, Prof. Steefni Ema Cruz, Prof. Maya Lin Noronha and Prof. Grebrian Alemao attended a one day Faculty Development programme on Smart Class on 14 July 2018 at Don Bosco College of Engineering.
- Prof. Sanford Fritz Mascarenhas attended a 7-day Student Induction Program organized by AICTE, New Delhi at DY Patil College of Engineering and Technology, Kolhapur from 19 July 2018 to 25 July 2018.
- Dr. Kala Nayak, Prof. Gladys D'Silva, Prof. Natasha D'souza e Jaques, Prof. Vaishali Rajendra Parakhi, Prof. Roseline Valerie Clara Fernandes and Prof. Avila Naik attended at one day NPTEL Awareness Workshop at Don Bosco College of Engineering on 21 July 2018 organized by Don Bosco College of Engineering
- Prof. Roseline Valerie Clara Fernandes has aced the NPTEL Examination for the course E-Business organized by NPTEL in association with Department of Industrial and Systems Engineering, IIT Kharagpur with an achievement of Topper of 5 percent which was held from July – October 2018.
- Prof. Steefni Ema Cruz attended a one day Faculty Knowledge Program organized by ICFAI Business School held at Hotel Fidalgo, Panaji –Goa on 9 August 2018.
- Prof. Roseline Valerie Clara Fernandes attended a one day seminar on Process Oriented Guided Inquiry Learning (POGIL) organized by Directorate of Higher Education, Government of Goa at Sanskruti Bhavan, Patto – Panaji
- Prof. Maya Lin Noronha has aced the NPTEL Examination for the course Developing Soft Skills and Personality organized by NPTEL in association with Department of Science and Humanities, IIT Kanpur with an achievement of Topper of 5 percent which was held from July – October 2018.

UPCOMING EVENTS

- Two events under SEEDS are planned to be organized on 9th February and 22nd March 2019.