



Connections

Quarterly Newsletter for Institute's Friends, Patrons, Mentors and Students

Feb. - April 2017 Vol 6 - Issue 3

INSIDE THIS ISSUE

Civil Department

Mechanical Department

ETC Department

Computer Department

Science & Humanities

Training & Placement Cell

Cultural



CIVIL ENGINEERING DEPARTMENT

Two Days Tech Fest "SANKRITI 2017"

The Civil Engineering Students Association (CESA) in collaboration with ICI Students chapter DBCE, organized a two days Tech fest "SANKRITI 2017" on 09th and 10th of March 2017. Faculty coordinators of the event were Asst. Prof. Satyesh Kakodkar, Asst. Prof. B.R. Anirudh and Asst. Prof. Prachi Dessai.

The Inaugural ceremony was held on 09th March in the esteemed presence of Chief Guest - Er. Chirag Naik-Director Commonwealth Developers and Guest of honour- Er. Saish Lawande-Technical Assistant WRD along with the Director-Rev. Fr. Kinley D'cruz and Principal- Dr. Neena Panandikar.



In all, 14 colleges participated from in and around Goa which included colleges like Don Bosco College-Panaji, Goa College of Engineering Farmagudi, Goa University, Salgaonkar College of Law, Goa college of Architecture, Agnel Polytechnic, Government Polytechnic - Panjim, Government Engineering College-Karwar, Girijabai Sail Institute of Technology-Karwar and Jain Polytechnic-Belgaum.

12 events were held which included Technical events like Truss Design, Mix Design, SFD and BMD, Model Making, Treasure Hunt, Auto-CAD, Quiz and 'I know it all' (Mock Interview). It also included some Non-Technical events like Photography, Block painting and Debate.

The Valedictory function was held in the presence of the Chief Guest - Rev. Fr. Paul D'Souza, Rev. Fr. Kinley D'cruz and Dr. Neena Panandikar. Goa Engineering College (GEC), Farmagudi were announced as the winners of "SANKRITI 2017".

This event was sponsored by various firms like EXCEL Builders and Developers as the Title sponsors along with other firms like Dillan, Borkars, M/s. Ravindra N. Lawande, K.V. Nadkarni and associates, Tridentia Developers, Milroc Construction, Arcanjo Constructions, Pyramid Constructions and Engineers, Infinite 3D, EDCON, NANU sand, Raksha chemicals etc. The event was also covered by Media partner 92.7 big FM and Prudent media.

Advanced AutoCAD training for T.E. Civil Students

AutoCAD is one of the most used tool in Civil Engineering and is used by many architects, engineers, and many other professionals in work execution for general and detailed drawings, hence an advanced AutoCAD training Course by Mr. Celestan Braganza was organized for the T.E. Civil students of DBCE on 30th March 2017. In this course Mr. Celestan explained with a presentation the definition and properties of the layer command in AutoCAD. He also emphasized the importance of layers by efficiently drawing architectural, electrical drawings etc. The students also got hands on practice on the Layer and Block command.

Earlier, a basic AutoCAD course was conducted by Asst. Prof Shruti Desai and Asst. Prof. Starina Dias, wherein the basic commands like Draw and modify toolbars were taught to them. These courses are provided to the students to enhance their all-round development. In all 32 students attended the entire course consisting of 4 sessions held on 06th, 13th, 20th August 2016 and 30th March 2017.

Two day's Workshop on Total Station and GPS

Two day's workshop on Total Station and GPS was conducted for the students of third year Civil engineering on 13th and 14th of February 2017 by CESA (Civil Engineering Students Association), DBCE. Mr. Mudassar Rangari & Mr. Vinayak Palav from Aimil Ltd were the resource person for the workshop.

The two day's workshop began with a practical session on total station, where students got hands on experience on all the operation using total station. On the second day, the morning session was utilised for practical's on hand held GPS.

All the practical sessions were attended in batches of 10 students. The workshop concluded with a theory session on the analysis of the data collected from site using both the devices where students learnt about software interface of both the devices. A total of 78 students attended the workshop. Asst. Prof. Annapurna Sakhardande of Civil Engineering was the co-ordinator of the workshop.

Two Day Seminar on “Advances in Structural Engineering”

The Department of Civil Engineering organized a national seminar on February 10th to 11th, 2017. 50 participants from various institutes like MIT college-Pune, GIT college- Belgaum, Kakinada Institute of Technological Sciences-Hyderabad, Goa College of Engineering- Farmagudi, Govt Polytechnic-Bicholim, Govt Polytechnic- Panjim, Agnel Polytechnic- Verna and various reputed consulting firms, industry professionals and PG students from GEC, Farmagudi, Goa, participated in the seminar.

Dr. Yogesh Dessai, Dean Administrative Affairs, IIT Bombay in Civil Engineering and a distinguished Chair Professor of Structural Engineering delivered a talk on “Engineered Materials for Civil Engineering Structural Applications.” Mr. Ashwin U., Scientist, Dynamics and Adaptive Structure National Aerospace Laboratories CSIR, shared information on “Vibration Control & Health Monitoring using Piezo-Transducers”. Dr. Bhavana Patel, Assistant Professor, RV College of Engineering, Bengaluru, delivered her lecture on “Mesh Free Method”.

Dr. Babu Narayan, Professor, Department of Civil Engineering, NITK, Surathkal, enlightened on “Multi Hazard Resistant Design”. Dr. A. S. Balu, presented on “Uncertainty analysis in Structural Engineering”. There was also a commercial presentation on “Concrete-Value Added Products”. Dr. Sanil Kumar,



Scientist, Ocean Engineering Division, CSIR-National Institute of Oceanography, (Council of Scientific & Industrial Research), Dona Paula, Goa who highlighted on “Uncertainty in evaluation of design wave parameters for offshore structures”.

The Chief guest, Shri. Joseph Silveira, appreciated the department of Civil Engineering for organizing a national seminar that would help the consultants and academicians to deliver in a better way. Further speaking on the occasion, Mr. Silveira said that “structural engineering is one of the important disciplines of Civil engineering and a structural engineer should be genuine in his design.

Field Visit to Cabo Hill Slope Stabilization Work, Raj Bhavan, Goa



On the 17th March, 2017, the Final Year Civil Engineering students of DBCE accompanied by Asst. Prof. Shwetha P, Asst. Prof. Satyesh Kakodkar and Asst. Prof. Parashuram Hosamani visited the slope stabilization work done at Raj Bhavan - Dona Paula.

S.E. Civil Students Visit Milroc Kadamba and Cidade De Goa

On 17th March 2017, The Civil Engineering Department organized a field trip for the Second year Civil Engineering students under CESA (Civil Engineering Students Association). The second year students were accompanied by Asst. Prof. Oswyn Soares, Asst. Prof. Swaroopa Sail and Mr. Shantanu Desai visited Milroc Kadamba, Near Old Goa bypass and Cidade De Goa, Dona Paula.

Field trip for T.E. Civil Students to OPA Water Treatment Plant

On 17th March 2017, The Civil Engineering Department organized a field trip for the Third year Civil Engineering students under CESA (Civil Engineering Students Association). The Third Year students visited OPA Water Treatment Plant at Khandepar,

Ponda. The students were accompanied by Asst. Prof. Prachi Desai and Asst. Prof. B.R Anirudha.

MECHANICAL ENGINEERING DEPARTMENT

Installation of SAE INDIA Collegiate Club of DBCE



The Mechanical Engineering Department installed the “SAE INDIA Collegiate Club” on 29th April 2017. The Chief Guest for the Inaugural function was Mr. Pankaj Munoli, AGM, Tata Marcopolo Motors Ltd, Dharwad and Mr. Raghuveer Vernekar, Chairman of Education Committee, GCCI was the Guest of Honour.

Mr. Munoli delivered a talk on “Current and Future Trends of Automotive Technology”. He emphasized on various domains like CAE, testing and validation and advances in Product Life cycle management. Mr. Vernekar spoke on four pillars of complete education: Learning to know, Learning to do, Learning to be, Learning to live together and elaborated further by citing from life story of Edmund Hillary.

Fr. Kinley D'Cruz elaborated on the advancements of Automotive Technology over the years citing his personal experiences of mentoring school dropouts. Dr. Neena Panandikar encouraged the students to participate in various competitions organized by SAE. Prof Ajit Salunke, HOD, Mechanical Engineering Department, urged students to use the incubation facilities in the college for R&D activities in Automobile Engineering. Asst. Prof. Chetan Gaonkar, Senior Faculty Advisor gave a brief introduction of the DBCE chapter. Asst. Prof. Raymond Joseph proposed the vote of thanks.

Asst. Prof. Siddu Biradar is the additional faculty advisor. The student office bearers are as follows;

Chairperson: Mr. Mohammad Faraz Khan, Vice Chairperson: Mr. Divyajeet Naik and Secretary: Mr. Nagesh Kochkar.

THERMOFEST 2017

The Department of Mechanical Engineering of DBCE, Fatorda and Indian Society of Heating Refrigeration and Air Conditioning Engineers (ISHRAE) DBCE Students Chapter organised THERMOFEST 2017, a technical fest with emphasis on Heating, ventilation, Air Conditioning (HVAC) and Refrigeration on 25th March 2017. Students from PCCE, AITD and DBCE participated in the fest.

The event was inaugurated by the Chief Guest Mr. Faizan Khan, Chairman and Managing Director, Universal Alliance Group in the distinguished presence of Rev. Fr. Kinley D'Cruz, Rev. Fr. Paul D'Souza, Dr. Neena Panandikar, Prof Ajit Salunke, and Student's Chapter President - Mr. Joshua Sapeco. Mr Faizan Khan urged students to keep pushing their limits and to think out of the box. He also encouraged them to take up entrepreneurship as a career citing examples of successful global entrepreneurs. Fr. Kinley D'Cruz emphasized on engineers believing in oneself and the potential that young budding engineers possess citing real life examples. Dr. Neena Panandikar wished the event a big success. Prof. Ajit Salunke stressed upon the importance of thermal sciences across various fields of science and engineering.



Technical events like project and paper presentation, debate, quiz, and short film competition were held. The student coordinators were Joshua Sapeco and Darren D'Silva while Asst. Prof. Tanay Rege was the faculty coordinator. The Universal Alliance Group was the title Sponsor of the event while it was co-sponsored by TechForce Composite Pvt Ltd, Talaulikar Electricals, Metro Radiators & Oil Coolers, Kamakshi Electricals, Cluck Tales, Laziz Pizzas.

One Day Workshop on 'Recent Trends in Refrigeration'

The Mechanical Engineering Department organised a one day workshop on 'Recent Trends in Refrigeration' in association with Indian Society of Heating Refrigeration and Air Conditioning Engineers (ISHRAE) Goa chapter on 11th Feb 2017.



The inaugural function began with the lighting of the traditional lamp. The Chief Guest, Mr. Rajendra Kumar Das, Head of Engineering, Cipla Ltd. complimented the Mechanical Department for various industry institute interaction initiatives. Rev. Fr. Paul D'Souza graced the occasion with his presence. Rev. Fr. Kinley D'Cruz highlighted the need for such workshops to keep pace with the recent innovations and industry practices in the field of refrigeration and air conditioning. Prof. Ajit Salunke, HOD, Mechanical Department gave a brief introduction of the workshop and spoke about the activities of the DBCE ISHRAE Chapter in the academic year 2016-17. Mr. Prakash Naik, President ISHRAE said that the event will be held annually and enlightened students on the functioning of ISHRAE.

The resource persons were Dr. K.N Patil, Deputy Dean (R&D), SDMCET Dharwad, Mr. Manish Kulkarni, Founder, TRUST Corporation, Mr. K B Kulkarni, Owner, Comfort Services and Mr. Prakash Sankpal, Head of Engineering Okasa Pharmaceuticals Pvt Ltd. The topics covered were Recent developments in refrigeration systems, Space conditioning in buildings through natural ventilation and day lighting, upgrading the productivity of process chillers for pharmaceutical industry, Maintenance of refrigeration systems and Refrigeration in the pharmaceutical industry.

The workshop was attended by 53 participants who included students of DBCE, AITD, GEC and PCCE

along with some teaching faculty. The workshop was coordinated by Prof. Tanay Rege and Prof. Siddu Biradar. Mr. Joshua Sapeco, President ISHRAE DBCE chapter proposed the vote of thanks. The function was compered by Mr. Darren P. D'Silva, Secretary ISHRAE, DBCE chapter.

Expert Talk by Dr. V. Mariappan

A Expert talk on "Interference Theory" was organized by Mechanical Engineering Department on 31st March 2017 from 3.00 to 4.30 pm. The speaker was Dr. V. Mariappan, Principal, Agnel Institute Of Technology & Design, Assagao Goa. The talk was attended by around 78 students of Final year Mechanical Engineering along with faculty members of the department. The talk was coordinated by Asst. Prof. Swapnil Ramani.

Dr. V. Mariappan introduced the students to the importance of Reliability Based Design in Mechanical Engineering. He divided his presentation into 4 key parts: Types of failure, Introduction to Reliability Based Design, Deterministic Design with its drawbacks, Probabilistic Design Methodology, Interference theory and it's analytical treatment.

"Applications of Energy Management & Audit"

On 10th March 2017, the Department of Mechanical Engineering organized an expert talk for B.E. Mechanical Engineering students in association with Institution of Engineers (India), DBCE Student chapter on "Applications of energy Management & audit" by Dr. Jagannath Hirkude, HOD-Mechanical, PCCE, Goa. He explained to the students about the general aspects of energy management and the various areas of studies for an energy auditor like energy efficiency in thermal utilities namely boilers, furnaces, FBC boilers, waste heat recovery etc. He also explained regarding the energy efficiency in electrical utilities like electric motors, compressed air system, fans and blowers, cooling towers etc. He demonstrated the method of conducting energy auditing by considering a case study. The talk was coordinated by Asst. Prof. Siddu Biradar and Asst. Prof. Sharad Shanbhag

Water Treatment in HVAC Systems

The Department of Mechanical Engineering

organized an expert talk in association with ISHRAE DBCE Student chapter on 8th March 2017 on “Water treatment in HVAC systems” by Mr. Michael Martins, President Elect, ISHRAE. He explained the effects of waste water produced on environment and organic health and various techniques and instruments used to carry out the waste water treatment. The talk was attended by around 90 students of third and second year mechanical engineering and faculty members of the department.

Talk on “Virtual Instrumentation and Robotics at Padre Conceicao College of Engineering, Verna

Prof. Ajit Salunke, HOD- Mechanical Engineering Department delivered a talk on “Virtual Automation and Robotics” at Padre Conceicao College of Engineering, Verna, Goa on 16th March 2017 for 3rd and 4th year Mechanical Engineering students. Prof. Salunke gave an overview of virtual instrumentation software, Labview, NI hardware for data acquisition and applications of robots in various fields. He also presented case studies of projects undertaken in these areas with video presentation. The talk was attended by around 100 students.

Talk on “Automation and Robotics in Agriculture” at Don Bosco College of Agriculture, Sulcorna, Goa

Prof. Ajit Salunke, HOD- Mechanical Engineering Department delivered a talk on “Automation and Robotics in Agriculture” at Don Bosco College of Agriculture, Sulcorna, Goa on for 1st and 2nd year students of B.Sc. (Agriculture) and faculty members of the college.

Prof. Salunke gave an overview of the application of robotics and automation in various areas of agricultural sciences and presented some case studies. Asst. Prof. Gaurang Patkar, HOD- Computer Engineering Department, DBCE spoke about application of Information Technology in agriculture.

Expert Talk by Mr. Sachin Mirajkar

An Expert talk on “Work Culture in Industries” was organized by Mechanical Engineering Department in association with Mechanical Engineering Students Hub (MESH).

The speaker was Mr. Sachin K. Mirajkar, Head of India

Operations, Netzsch Technologies India Pvt. Ltd., Verna Goa. Mr. Sachin Mirajkar spoke about the importance of ethics, culture and team work in Industry The expert talk concluded with a Q&A session with the students.

Diesel Engine Technologies Over Indian Railways

Department of Mechanical Engineering organized a talk in association with Institution of Engineers (India), DBCE Student chapter on “Diesel engine technologies over Indian Railways” by Dr. Suresh D. Mane, Principal, Girijabai Sail Institute of Technology, Karwar.

Dr. Mane spoke on Diesel Engine construction/components, New Technological features in Locos and New Technologies in Diesel Engines. He stated that Indian Railways operates 12000 trains every day and half of them are hauled by the diesel locomotives.

Mr. Kedar Acharya Achieves 98th All India Rank in GATE Examination

Mr. Kedar Acharya, Alumnus of Mechanical Engineering Department from the 2015 batch secured an All India Rank (AIR) of 98 with a percentile of 96.638 at the GATE 2017 (Graduate Aptitude Test in Engineering) in Production and Industrial Engineering (PI) Section. A Total of 2915 candidates appeared for this particular test.



GATE 2017 is conducted by the Indian Institute of Science (IISc) and seven IITs on behalf of the National Coordination Board, Department of Higher Education, HRD ministry. It tests the comprehensive understanding of engineering and science students of various undergraduate subjects. The test scores are used for admission to master of engineering, master of technology and Ph.D programmes in the Indian Institute of Science, IIT and other higher educational institutes in India. About 20 PSUs also use GATE scores for recruitment.

Mr. Kedar Acharya was congratulated by

Management and staff of DBCE for his commendable achievement

DBCE Alumnus Sanket Mandrekar Excels in MTV Colors of Youth



Mr. Sanket Manderkar, alumnus of 2011-2015 batch of the Mechanical Engineering Department participated in “Maruti Suzuki Colours of Youth Season 6”, powered by MTV, a national level talent search competition for youth of the country and was shortlisted among the top 7 in the finals in New Delhi. With auditions being carried out in 12 cities across India, Sanket, having finished top 5 in Hyderabad, subsequently went on to finish amongst the best performers of South Zone, and thus qualifying for the finals with 11 other finalists.

Sanket is a talented spot painting artist and had brought laurels to DBCE during his college days by winning various state level competitions. “Colors of Youth has taught me important lessons of life, to always give my 100%, to work harder and harder and failures are important for success”, says Sanket.

Field Visit to Quality Foods, Cuncolim

The DBCE ISHRAE student's chapter organized an industrial visit to Quality Exports, Cuncolim in association with ISHRAE Goa chapter and for T.E. and BE Mech student members.



A detailed explanation on the “Sea Food Product Processing and Packaging Process” was given by Mr. Coutinho, Manager of the processing unit.

ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING DEPARTMENT

Inaugural of Institute of Electronics and Telecommunication Engineers Student's Forum

The Electronics and Telecommunication Department organized the Inaugural of the Institute of Electronics and Telecommunication Engineers, students forum on Saturday, 29th April 2017. The inaugural began at 10.30am with the lighting of the lamp. Miss Shreya Usgaonkar compered the event.



Mr. Sachin Talwadkar, Associate consultant at TCS, was the chief guest of the function. Dr. H.G Virani, Head of Department of Electronics and Telecommunication Department of Goa College of Engineering. The chairman of IETE Goa Sub Centre, also attended the inaugural function. Rev. Fr. Kinley D'Cruz, Mrs. Neena Panadikar, Mrs. Michelle Viegas, HOD of ETC Department; Mrs. Samantha Cardoso and Mr. Vishnu Rathod IETE coordinators were the other dignitaries present at the dais.

The inaugural was then followed by the introductions of Mr. Sachin Talwadkar and Mr. H.G Virani by Miss Rakashata Naik and Mr. Rohit Sardesai respectively.

Fr. Kinley D'Cruz inspired students to follow their passion and to work hard and aim at gaining knowledge through these forums. Dr. Neena Panandikar congratulated the students and encouraged them to take full advantage of the benefits provided by the association.

Dr. H.G Virani, the chairman of IETE, Goa Subcentre briefed students on the various benefits that IETE provides and the various facilities available to students. Chief guest Mr. Sachin Talwadkar, urged students to get exposed to different cultures and

learn from them to serve society in a better way.

Soon after there was a small refreshment break followed by a session by Mr. Sachin Talwadkar, on “An Introduction to Manufacturing Industry”.

TECHNIX 2017

The Electronics and Telecommunication Department organized 'TECHNIX 2017' on Saturday, 29th April 2017.

The exhibits were divided in two categories: Mini project category and Academic



projects. There were 11 mini and 16 academic projects. The exhibition opened at 11.30 a.m The judges for the exhibition were Dr. H.G Virani, Professor and Head of Department of Electronics and Telecommunication Department at Goa Engineering College, Prof. Sailesh Khanolkar, Associate Professor, Electronics and Telecommunication Department at Padre Conceicao College of Engineering and Prof. Prathamesh Bhatt, Asst. Prof., Electronics and Telecommunication Department at Agnel Institute of Technology and Design, The judges keenly scrutinize all the exhibits at the exhibition. Some of the projects on display were multilevel parking facility, fire fighter robot, waste sorter machine, and smart railways.

“LabVIEW”

To meet the Industry goals and requirements the Department of Electronics and Telecommunication Engineering in association with DBEATS conducted a one day workshop on “LabVIEW” on the 3rd April, 2017 for the third year students of Electronics and Telecommunication Engineering branch. A total of 69 students participated in the workshop. The sessions were delivered by Asst. Prof. Flavia Leitao and Asst. Prof. Mathilda Colaco.

The main objective of this workshop was to upgrade

the skills of the students but it also provided a common platform to explore the use of Virtual Instrumentation and Design aspects using simulation with the help of NI LabVIEW.

The following areas were covered with hands-on exposure to the software :

- Brief overview of LabVIEW and its applications.
- Mathematical operations
- Digital Logic using Boolean gates
- For Loops with various examples
- Shift Registers and its applications
- Design of Arrays with examples
- Conditional While Loops
- Practical system examples using Case Structures.
- Implementation of higher end computation using Formula Nodes.
- Hierarchical designing using Sub-VI

At the end of the workshop the students provided excellent feedback

Workshop and Online Test on “C-Test and CPP - Test”, Conducted by Electronics and Telecommunication Department, DBCE in Collaboration with Spoken Tutorial IITB.

In collaboration with Spoken Tutorial IITB, Electronics and communication Department Organized a workshop on “C and CPP” for T.E. ETC students and workshop on C for S.E. ETC, F.E. Civil students. Asst. Prof. Vidhya D.S. from ETC Department organized the workshop. On 24th, 25th, 26th and 28th April 2017 and 4th, 5th May 2017, the participants answered online test and Asst. Prof. Manisha Faldessai from Computer Dept, Asst. Prof. Mithil Parab, Asst. Prof. Siya Naik were the invigilators. The successful participants were issued with certificates from spoken tutorial team IITB team.

Guest Lecture on “Reliability and Testing”

A Guest lecture was organized by the Department of Electronics and Telecommunication in association with DBEATS (Don Bosco Electronics and Telecommunication Society) for the students of the Second, Third and Fourth years on 11th February 2017 in the afternoon session. The technical talk on “Reliability and Testing” was delivered by Mr. Jerald Leo, Quality Manager, Siemens Ltd, Verna.

The lecture covered the broad idea on Verification

and validation, Reliability test approach, stress test, Failure mechanisms and failure models. Mr. Jerald Leo also briefed the students about the job opportunities in the field of Testing.

As a token of appreciation, a memento was presented to Mr. Jerald Leo by Asst. Prof. Trima Fernandes e Fizardo and the lecture was coordinated by staff coordinators, Asst. Prof. Trima Fernandes e Fizardo and Asst. Prof. Melba D'Souza.

COMPUTER ENGINEERING DEPARTMENT

Computer Students Attend Seminar on Motion Graphics



The students of Second Year Computer, Third Year and Final Year Engineering attended a seminar on "Motion Graphics" organized by C-CODES (Computer students association) on 28th April 2017. The speaker for the seminar was Mr. Gohar Chanekar – CEO of Visual Vibes.

In the first part of the session, Mr. Gohar spoke about his journey as an entrepreneur. He started a company Visual Vibes at the age of 17 that focused on graphics designing. After a year he moved to Bangalore where he expanded his company to refined services such as visual creations, 3D Mapping and motion graphics.

He then spoke about motion graphics. Motion graphics are pieces of digital footage or animation which create the illusion of motion or rotation, and are usually combined with audio for use in multimedia projects. Motion graphics are usually displayed via electronic media technology, but may also be displayed via manual powered technology. A live wall paper was created as a demo for the students using the software Cinema 4D. CINEMA 4D is a 3D modeling, animation, motion graphic and

rendering application developed by MAXON Computer GmbH in Germany. It is capable of procedural and polygonal/subd modeling, animating, lighting, texturing, rendering, and common features found in 3D modelling applications.

In his concluding remarks Mr. Gohar emphasized the need to finish engineering studies before doing any course related to animation and graphics. He mentioned that engineers can better understand the technical aspects of graphics animations. The coordinators for the workshop were Asst. Prof. Gaurang Patkar (H.O.D – Computer Engg) and Asst. Prof. Merwyn D'Souza.

SE Computer Students Attend Workshop - "PHP and Mysql"

C-Codes Student Association along with the Computer Department organized a workshop on PHP and Mysql. The workshop was conducted on 25th March 2017. The resource faculty for the workshop was Asst. Prof. Amrita Naik and Asst. Prof. Lilavati Samant. The workshop was attended by Second Year Computer Engineering students. The coordinator for the workshop was Asst. Prof. Merwyn D'Souza.

The resource faculty gave basic knowledge of PHP. PHP is a general-purpose server-side scripting language originally designed for Web development to produce dynamic Web pages. It is one of the first developed server-side scripting languages to be embedded into an HTML source document rather than calling an external file to process data. More than three-fourths of all websites use PHP, server side scripting language, for web development. MySQL is a popular, easy to use database system. Workshop on Web Development using PHP with live projects will enabled students to design and develop GUI driven web pages using PHP - by merging PHP



code into HTML web pages, and connecting the PHP code with database programming using MySQL.

Students attending the workshop were exposed to Web based application development , Configuration of xampp web server, Text input and output, Variables, Indexed Array, Associative array, Conditional statement such as if, else-if, switch, Looping statements such as for, while, foreach, Functions, Date, Lists, Dictionary. Students were made familiar with different ways that browser client can send information to web server: `_get` and `_post`. Simple PHP embedded html pages/ Login forms were developed to send information to web server and process it.

The workshop was interactive as well as hands on, with simultaneous practical sessions conducted by resource faculty. The objective of this workshop was to gain the PHP programming skills needed to successfully build interactive, data-driven web-sites.

C-Codes Activity

S.E. Computer Students Attend “Python Workshop”

C-Codes Student Association along with the Computer Department organized a workshop on Python. The workshop was conducted on 11th March 2017. The resource faculty for the workshop was Asst. Prof. Amey Kerkar, Asst. Prof. Amey Tilve and Asst. Prof. Manisha Fal Dessai. The workshop was attended by Second Year Computer Engineering students. The coordinator for the workshop was Asst. Prof. Merwyn D'Souza.

The resource faculty gave basic knowledge of Python. Python is a widely used high-level programming language for general-purpose programming, created by Guido van Rossum and first released in 1991. An interpreted language, Python has a design philosophy which emphasizes code readability (notably using whitespace indentation to delimit code blocks rather than curly braces or keywords), and a syntax which allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java. The language provides constructs intended to enable writing clear programs on both a small and

large scale. It has simple easy-to-use syntax, making it the perfect language for someone trying to learn computer programming for the first time.

Students attending the workshop were exposed to Getting started, Text input and output, Variables, If statements, For loops, While loop, Functions, Lists, Line chart, Command line arguments, Tuples, Dictionary, Files, Modules, Date and Time, Comments, Strings and Sub-strings, Random numbers, Logging, Read Gmail using Python, Class, Download files, Regular Expressions, Statistics, Network Socket Client, Network Socket Server, Get links from webpage, Get image links from webpage, Text to Speech. There are two ways introduced to students for using the Python interpreter: shell mode and program mode. In shell mode, Python expressions are typed into the Python shell, and the interpreter immediately shows the result.

The workshop was interactive as well as hands on, with simultaneous practical sessions conducted by resource faculty. The objective of this workshop was to deliver important programming skills which would be beneficial to students with regards to placements in the final year.

Seminar on Role of Information and Communication Technology (ICT) in Agriculture

The Department of Computer Engineering organized a one day seminar on the “Role of Information and Communication Technology (ICT) in Agriculture” on 10th April 2017. Technology is fast affecting the way we grow crops which allow the farming business to be more profitable, efficient, safer and more environment friendly. Information and Communication Technologies (ICT) in agriculture is an emerging field focusing on the enhancement of agricultural and rural development in India. It involves application of innovative ways to use ICT in



the rural domain. With this in mind the coordinators, Asst. Prof. Maria Christina Barretto and Asst. Prof. Chinnu George invited four speakers from the field of Agriculture and Information Technology to share their views on a common platform.

The guest audience for this seminar was faculty and students from our sister Institute, Don Bosco College of Agriculture (DBCA), Sulcorna. Around 85 students along with 6 faculty members of DBCA, Sulcorna visited the institute to be a part of this program.

The first speaker for the seminar was Mr. Parag Rangnekar, Nature Enthusiast and Proprietor of Mrugaya Nature Retreat, Amboli. He is also popularly known as “Butterfly Man of Goa” for his expert work in Lepidoptera (Study of butterflies and moths). He spoke on the various categories of insects, butterflies and moths that help in pollination and are beneficial for farming as well as insects which are pests. Mr. Rangnekar also spoke at length about the need for good entomologists and taxidermists - a profession which contributes greatly to scientific fields, such as forensics, molecular science, biology, agriculture, chemistry and animal and human health. Students then participated in identifying many species of butterflies and insects collected by Mr. Rangnekar. He also invited students and faculty to share in his joy for nature by visiting Mrugaya Nature Resort in Amboli.

The second speaker was a local Horticulturist and Organic Farming Expert, Mrs. Terency Luis. She is a qualified Special Educator but has changed her perception towards living substantially and harmoniously with nature. She has since studied the art of organic farming and takes great pride in maintaining her own “kitchen garden” which provides basic food for her family and friends. She spoke at length about her distaste for pesticides and her method of clean farming. She shared pictures of her garden and its produce with the audience. Mrs. Luis introduced the students to a method of raised garden beds called Hugelkultur. Mrs. Luis owes her knowledge and expertise to the Internet (a form of ICT) which she claims introduced her to the idea of organic farming and has put her in contact with the farming society worldwide. She started out by trying

the concept of a “Square Foot Farm” which eventually turned out to occupy her entire backyard as her passion for farming continued. She encouraged students to build the online farming concept by sharing their knowledge so that we can all contribute and benefit by living a clean and holistic lifestyle.

The third speaker was an officer from the Agriculture Department of Goa. Mr. Saieesh Gandhi started his talk by explaining the use and benefits of the Krishi Card – a digital card that will serve as a gateway for farmers to avail themselves of benefits such as subsidies, assistance and loans from the state. He went on to explain that the Krishi Card will introduce a mechanism to identify all Goan farmers and maintain a history of the land holdings, assets and subsidies availed. He explained how the introduction of this digitally coded card will spare farmers from repeatedly producing their documents and affidavits to avail themselves of subsidies. He shared a video of the same, proving the role of ICT in the development of these cards.

The fourth speaker for the day was Asst. Prof. Gaurang Patkar, Head of Department, Computer Engineering. Asst. Prof. Patkar explained the meaning of ICT, and classified the traditional and modern methods of information technology that is applicable in the field of agriculture. He gave examples of various new farming techniques such as Hydroponics and Smart Gardens. He showed the students video representations of the same. His talk was followed by a live demonstration of a smart irrigation system by Mr. Raqueeb Sarmadi and Mr. Myron Rodrigues (ex-students of DBCE). The seminar ended by a group picture of the faculty and students.

CAIR Bangalore Visit

DRDO - "Defense Research and Development Organization" is an apex institution of central government which co-ordinates the activities of many research laboratories spread across the country. A visit to DRDO's Centre for Artificial Intelligence and Robotics, Bangalore became the fulfilment of a dream of all the faculty of Computer Engineering Department and Mechanical Engineering Department on 5th April 2017. Out of ten

research proposal submitted, three were accepted and the principal investigator (PI) along with Co-PI were invited at CAIR, Bangalore for further discussion. Mr. Gaurang Patkar, Ms. Maria Christina Barretto, Ms. Chinnu George, Mr. Amey Tilve, Mr. Suraj Marathe and Mr. Sanjeel Naik visited the site and gave research proposal introductory presentation, which gave CAIR scientist an idea about the aim, problem definition and methodology which will be used in projects. CAIR is engaged in the development of a range of Information and Communication Systems and Security Solutions. Simultaneously, the laboratory carries out R&D in advanced technologies relevant to Tactical Communication, Communication Secrecy and Information Security classes of systems. After



discussion with the senior and junior scientist some changes were suggested to two research proposals.

Due to confidentiality, we were not allowed to take any electronic gadgets inside the office and were also devoid of internet access.

Farewell B.E. COMP 2017

The Computer Engineering Department organized a farewell function for the final year B.E. Computer Students Batch (2013-2017) on April 29th 2017. The Farewell commenced at 10:30am.

Faculty Development Programmes

Asst. Prof. Flavia Leitao, Asst. Prof. Mathilda Colaco and Asst. Prof. Vishnu Rathod attended a webinar on "Cloud Computing" which was held on 1st March 2017. It was conducted by the Computer Department in association with TCS Ion Academy. The topics covered were virtual server creation, virtual client creation using cloud.

Faculty Development Program on Cloud Computing - The Future of Technology

The Computer Engineering Department organized a 2 hour Webinar session on "Cloud Computing the Future of Technology" on March 1st 2017. The coordinators for the Webinar were Asst. Prof. Christina Barretto and Asst. Prof. Chinnu George.



The Webinar was delivered by Mr. Lucky Sharma from the Tata Consultancy Services (TCS) on



Cloud computing. He briefed that Cloud computing is Internet based development and use of computer technology, it is a paradigm shift whereby details are abstracted from the users who no longer need knowledge of, expertise in, or control over the technology infrastructure "in the cloud" that supports them. It typically involves the provision of dynamically scalable and often virtualized resources as a service over the Internet. Cloud computing services provide common business applications online that are accessed from a web browser, while the software and data are stored on the servers.

He also spoke about the services of a cloud computing. He focused a Cloud Service as an independent piece of software which can be used in conjunction with other services to achieve an interoperable machine-to-machine interaction over the network. Examples include Amazon's Simple Queue Service, Google maps, Amazon's flexible payment service etc. These services are broadly divided into three categories: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). The name cloud computing was inspired by the cloud symbol that is often used to represent the Internet in flow charts and diagrams. The seminar concluded with various queries on cloud computing. The webinar provided an interactive atmosphere between the resource person and the participants.

Paper Presentation

Siya Sadashiv Naik presented a paper entitled "EXTRACTIVE TEXT SUMMARIZATION BY FEATURE BASED SENTENCE EXTRACTION USING RULE-BASED CONCEPT", 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2017). IEEE XPLORE ISBN: 978-1-5090-3704-9 at Sri Venkateshwara College of Engineering, Bangalore, which was held on 19th-20th May 2017.

SCIENCE AND HUMANITIES

SEEDS



The final SEEDS event for the academic year, was held on the 25th March, 2017. The event began with a talk on Networking and Cyber Security delivered by Asst. Prof. Mithil Parab, Department of Computer Engineering. He explained to the students the various fundamentals of Computer Security and how a few basic security measures can help one secure themselves on Social Media and anywhere else on the Internet. He also demonstrated a few backdoor entry routes utilized by hackers to gain access to data. He also gave the students a few tips on how they should protect themselves online.

The next event held was the 'Minute to Win it' competition, in which the students had to use their basic skills and knowledge of Entry Level Physics. The motive was to do as much of the specified task within a minute. The first place was bagged by the F.E. Mechanical Class. An off stage Poster Competition on the theme 'Engineering and the Environment' was held, in which the students from F.E. ETC secured the first place.

While the 'Minute to win it' was being held in the hall,

the students had another competition in the off-stage section where they had to design Bridges with the help of trusses using only Ice Cream sticks, Glue and thread. At the end of the event a variety of bridges were displayed. The best bridge that withstood a weight of 14kg was built by the F.E. ETC.

In the session after refreshments, the F.E. ETC Class presented a talk on R/C Car Building where they showed the students the various software's used in controlling the mechanical parts of the car. They also showed the basic hardware required and the connections made on a prototype they had created. They also told the students about the various limitations and hurdles that they might encounter while engaging in this project.

Post lunch session included an interesting Mock Parliament, in which the students posing as Members of Parliament put forth various issues such as Women Empowerment, Defense Spending, National Language etc. And engaged in meaningful discussions and passed bills giving the students a brief outlook on how the democratic system works. The competition was won by the F.E. Mechanical Class.

The event ended with the Valedictory Function, in the presence of Rev. Fr. Kinley D'Cruz, Dr. Neena Panandikar, HOD- Science and Humanities –Asst. Prof. Harison Cota, SEEDS staff coordinator- Asst. Prof. Vaishali Parkhi and SEEDS Chairperson – Ms. Subrata Rai. F.E. ETC were declared winners for the SEEDS events held all through the academic year with F.E. Mechanical in 2nd place, F.E. Civil in 3rd Place and F.E. Computers in 4th place. The rolling trophy was presented to the winning team by Rev. Fr. Kinley D'Cruz and Dr. Neena Pannadikar.

Workshop Attended

Dr. Kala Nayak, Asst. Prof. Vaishali Parakhi, Asst. Prof. Natasha Dsouza e Jaques and Asst. Prof. Zebalda Vas participated in the workshop on 'Teaching Strategies in Mathematics' from 28-29th April, 2017 at BITS Pilani -Goa Campus.

TRAINING AND PLACEMENT CELL

Virtual Guest Lecture on Cyber Security

A virtual guest lecture on the topic Cyber Security –

Emerging Industry and Opportunities was organized for the third year Computer Engineering on 20th March 2017. The lecture was conducted through Skype and the resource person was Mr. Chinmay D, Engineer at Lucideus Technologies.

The students were made aware of the career opportunities in cyber security and the importance of going beyond their curriculum to undertake live projects. The students also had an interactive question and answer session clearing the doubts on projects and applications that they can develop. The lecture was coordinated by Asst. Prof. Roseline Fernandes

Giant E-Tailer Amazon at DBCE

Don Bosco College of Engineering, Fatorda hosted Amazon, Pune for a pool campus drive. More than 300 students participate in a grueling competitive spirit to secure jobs at the company.

The colleges that participated in the campus drive were: Padre Conceicao College of Engineering, Agnel Institute of Technology and Design, Shree Rayeshwar Institute of Engineering and Technology, Goa College of Engineering, Girijabai Sail College of Information technology, Karwar and DBCE, Fatorda.

At the end of the Campus drive, around 30 students of DBCE, Fatorda were offered jobs.

Don Bosco College of Engineering Kick Starts its Campus Placement Season in February

With visits from Persistent Systems Ltd. and IBM, DBCE, Goa began its campus placement season with zest. Persistent Systems, Goa conducted an online test for final year Computer Engineering students of which 6 students were shortlisted for further rounds of interview. Following interviews on 14th February 2017, Ms. Mubina Shaikh was selected. Incidentally, she also bagged the Persistent Systems Girls Scholarship in her first year. IBM conducted a pool drive for the engineering students of Goa. More than 200 students attended the drive and were grilled on their communication and presentation skills. 16 students from DBCE were given job offers.

The final year students were also made aware of the

various opportunities and career options after engineering through a seminar by Akademia, Mumbai. With more companies lined up for placements, DBCE is geared up to place the maximum number of students in different companies.

Vdart and Stalwart Systems Campus Drive

VDart Software Services, Trichy conducted a campus drive for final year Computer and ETC students on 29th March, 2017. 56 students attended the drive. Ms. Sumathy S, Lead Campus Recruiter, VDart was present to conduct the process. Following group interaction, 19 students were shortlisted for the final HR Round. This hiring is for the Infrastructure Analyst for HCL.

Stalwart Systems, Verna conducted an aptitude test to shortlist students for the post of Trainee Engineer on 31st March, 2017. Mr. Myron Estibeiro, Lead Security Engineer was present to conduct the process. He gave a brief presentation about the company and the opportunities with them. The company shortlisted 8 students for final interviews which were conducted on 4th April 2017.

Sankalp Semiconductors Campus Drive

Sankalp Semiconductors, Hubballi conducted a campus drive for final year ETC students on 29th April 2017. 79 ETC students across all the engineering colleges of Goa attended the drive. Mr. Damodar Charate along with his team from the company was present to conduct the process. Following a written technical test, 20 students were shortlisted for the group discussion round. The group discussion filtered 12 students for the final technical and HR round. The company made job offers to 5 students, including two students from DBCE.

The college has scheduled Trade Ocean Cargo and Shipping, Nagpur Campus Drive on 4th May 2017 for students interested in merchant navy as a career option.

CULTURAL

Procyon 2017

The student's council organized the annual cultural fest Procyon 2017 on the 15th & 16th March 2017. Procyon is an inter-class cultural fest, wherein



students of 16 different classes showcase their talents in various cultural activities on a common platform.

This year several activities like Rhythm of Tradition, Mute Beat, Battle of Bands, Step Up, Flag Painting, Master Chef, Nukkad Natak, Snapper, Paint my Shoe, Dumsmash, The Voice, Natkule, Rock the Ramp, Face Painting, Wealth out of Waste, Ad Makers, Rang De, Movie Making were held in the college campus.

The event was declared open by Chief Guest - Mr. Varun Carvalho of international fame. Also present at the inaugural function were Rev. Fr. Kinley D'Cruz, Dr. Neena S. P. Panandikar, Dr. Kala Nayak, General Secretary - Mr. Omkar Komarphant and Cultural Secretary - Ms. Steffeny Fernandes.



The students of B.E. Mechanical were felicitated as the winners of Procyon 2017 on the Annual cultural day at the hands of Rev. Fr. Kinley D'Cruz.

Kohen Duarte (T.E. Civil) & Shivani Keny (T.E. Civil) were respectively crowned Mr. & Ms. Procyon 2017.

The results of PROCYON 2017 are as follows

Sr. No.	Event Name	1st Place	2nd Place
1	Rhythm of Tradition	Mech. Dept	Civil Dept.
2	Mute Beat	B.E. Civil	B.E. Mech
3	Battle of Bands	ETC Dept	Comp Dept
4	Step Up	B.E. Mech	B.E. Civil
5	Flag Painting	B.E. Mech	S.E. Comp

6	Master Chef	F.E. Mech	S.E. Comp
7	Nukkad Natak	S.E. Comp	B.E. Civil
8	Snapper	S.E. Comp	B.E. Mech
9	Paint my Shoe	B.E. Civil	T.E. ETC
10	Dumsmash	B.E. Mech	F.E. ETC
11	The Voice	S..E Comp	B.E. Comp, T.E. Comp
12	Natkule	B.E. Mech	T.E. ETC
13	Rock the Ramp	S.E. Mech	S.E. Civil
14	Face Painting	B.E. Civil	S.E. Civil
15	Wealth out of Waste	T.E. Mech	S.E. Comp, B.E. Mech
16	Ad Makers	B.E. Mech	T.E. Mech
17	Movie Making	S.E. Comp	T.E. ETC
18	Rang De	S.E. Comp	F.E. Civil

Overall Winners of PROCYON 2017

BE Mech	1200 points
SE Comp	1025 points
BE Civil	825 points

Annual Day 2017

Don Bosco College of Engineering, Fatorda celebrated its 6th Annual Day and Prize Distribution Ceremony at Ravindra Bhavan on 18th March 2017. Speaking on the occasion, the Chief Guest - Mr. Antonio Rego, Managing Director – Andrew Telecommunication, encouraged the students to be architects of nation building by striving for excellence because the twenty first century belongs to India and the students can be the future of technological transformation. He urged the students to concentrate on all round development while also saluting the efforts of the teachers. Earlier, Rev. Fr. Kinley D'Cruz welcomed the gathering and congratulated the hard work put in by all that epitomizes the spirit of DBCE.



Mr. Rego, further explained a five point programme that advised the students to strive for excellence



while not being afraid of failure. He also stressed the importance of a restless and inquisitive mind and the joy of dreaming big.

The other dignitaries who spoke on the occasion were Guest of Honour - Ms. Pallavi Arondekar, Deputy Director, GCCI. Ms. Arondekar, explained the glorious history of GCCI and how it aims to create a conducive environment for economics in Goa. She asked the students to create a niche for themselves and to make the most of their degree education. The Provincial- Rev. Fr. Felix Fernandes and Rev. Fr. Paul D'Souza were the other dignitaries present.

Earlier, Dr. Neena Panadikar highlighted the tremendous progress the college has made within a nascent six years. The Registrar - Dr. Kala Nayak and the heads of departments presented the annual report of the college. The meritorious students of the college were felicitated. The college magazine Beacon was released at the hands of the dignitaries. The students, Mr. Meldon Fernandes and Ms. Blossom Fernandes compered the function. The formal inaugural session was followed by a cultural programme presented by the students and staff members.

Women's Day 8th March, 2017 Report



On the occasion of International Women's Day, the Counseling Cell organized a talk by Dr. Deepa Sharieff and Mrs. Shreemi Pai Panandikar for the women staff members and girl students of the college on the 8th March 2017. Dr. Deepa Sharieff, a practicing gynecologist, spoke about the different health risks women are prone to and highlighted the importance of nutrition and exercise.

Mrs. Shreemi Pai Panandikar, Beryl Nasse, 2nd runner up in woman's entrepreneurship, explained to the girls about how she started her business as a graphic designer in the name of Shreemi Creations; after which she gradually started manufacturing an array of signs and display boards. She motivated the students to chase their dreams and gave them tips on how to become a good entrepreneur. The vote of thanks was delivered by Asst. Prof. Anisha Cotta, who thanked the Rev. Fr. Kinley D'Cruz for granting permission to celebrate women's day at DBCE.



Students from the final year performed a classical dance and keeping the enthusiasm going, Dr. Neena Panandikar sang a medley up of multi-linguistic songs.

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