

INSIGHT

Computer Engineering Department's Newsletter

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Inside this Issue

Workshop on “MOODLE Learning Management System”

◆ Student Corner ◆

- Workshops/ Seminars / In-house Trainings
- Expert Talks
- Participation in Sports Activities
- Participation in Cultural Activities
- Participation in Technical Events and Competitions

◆ Faculty Initiatives ◆

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

Upcoming Events

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VISION

To be recognized as a center of excellence in the field of computer engineering, engaging with and maintaining a strong association with leading organizations, nurturing professionals and entrepreneurs with a positive mind set coupled with societal concern.

MISSION

- To keep pace with the latest software and hardware development within and beyond the curriculum so as to nurture competent professionals.
- To enhance research opportunities and entrepreneurship opportunities in the department by promoting application based education and partnership with the industry.
- To foster a holistic learning ambience by inculcating professional behavior, problem solving skills, student-faculty collaboration and socio-ethical awareness.

Workshop on “MOODLE Learning Management System”

The Department of Computer Engineering, Don Bosco College of Engineering (DBCE), organized an event called ‘DBCE Dream Big’- an Industry Student Connect event, on April 13, 2022.

Around 103 Remote Centres participated in this workshop all over India, Don Bosco College Of Engineering being one of them. The remote center coordinator of the workshop was Prof. Amrita Naik and workshop coordinator was Prof. Steefni Ema Cruz. The entire workshop was guided by Prof. Steefni Ema Cruz and Mr Amit Sapkal.

Moodle is a system which helps teachers and educators to create an online platform for more adaptive and customized learning. In the inaugural function, Prof. Kannan Moudgalya, Principal Investigator, PMMMNMTT and Spoken Tutorial Project, IIT Bombay spoke of the importance of mastering the digital learning systems to make teaching more interesting to the students not only in higher education but also in schools. He said that in this generation, when students are living in the digital world, the method of chalk and talk has to be rethought. Following this Ms. Nancy Varkey introduced the Spoken Tutorial Forum. The workshop was solely based on this Spoken Tutorial Forum wherein participants were introduced to 17 videos on how to install and work on the Moodle system.



The participants of the workshop were teachers and system admin from various colleges in the states such as Padre Conceição College of Engineering, Agnel Institute of Technology and Design, Shree Rayeshwar Institute of Engineering ,Parvatibai Chowgule college, Rosary College of Commerce/Arts and schools such as Kendriya Vidyalaya, Vidya Vikas Academy etc.

The participants had to watch each of these videos, follow the instructions and replicate the same in the Moodle system. If there were any difficulties then such questions were to be put up on the forum which was then replied to by the organizers. This was done so that all users of Moodle can see the questions and answers and get their issues resolved. This workshop was entirely based on self-learning so that the participants familiarized themselves to Moodle by getting a first-hand experience. For the valedictory function, there was a panel discussion wherein the participants asked difficulties related to the working of Moodle in their respective Remote Centres and was answered by Prof. Kannan Moudgalya and Ms. Nirmala Venkat.

STUDENTS CORNER

Workshops/ Seminars / In-house Trainings

1. Two Weeks **INTERNSHIP TRAINING** on “Machine Learning with Tensor Flow” from 2nd to 12th January 2019.



The Department of Computer Engineering of Don Bosco College of Engineering organized a Two-week Internship Workshop on App development using react-native for the Third Year Computer Engineering students. The workshop was conducted from 2nd Jan 2019 to 12th Jan 2019. The resource persons for the workshop were Mr. Vibhav Kharangate and Mr. Shravan Hegde, Earnestek, Margao. The coordinator for the workshop was Prof. Kiran Waghmare. The workshop mainly focused on Python programming with Machine Learning and Deep Learning concepts. In the first week of workshop, the students were introduced to the basic concepts of programming in Python with various libraries. Also the Machine learning basic concepts were covered with a detailed explanation.

In the second week, Deep Learning concepts were covered with hands-on session on Tensor flow. At the end of the workshop, the resource persons also conducted a session for mini project. The workshop was interactive as well as hands on, with simultaneous practical sessions conducted by resource persons. The objective of this workshop was to deliver recent knowledge from machine learning areas which would be beneficial to students with regards to their future final year projects. Students were encouraged and challenged to create their own apps and come up with innovative project ideas for various project exhibition.

2. Workshop on “Introduction to Web Technologies : HTML”

C-Codes Student Association along with the Computer Department organized a workshop on “Introduction to Web Technologies: HTML”. It was conducted on 12 January 2019, for second year computer engineering students. 60 students attended the workshop. The resource person for the workshop was Prof. Vivek Jog. The coordinator for the workshop was Prof. Merwyn D’Souza.

It was conducted in two sessions, morning and afternoon. In the morning session the students were introduced to software development, the various fields associated with it, terms used in web development etc. The students were further briefed into the technologies to be learnt in order to venture into web development like HTML 5, CSS 3, JavaScript, MySQL, bootstrapping etc.



The basic HTML tags, typical structure to design a webpage, tags like download button, to integrate audio or video API's, to create lists, radio button, drop down, check box, etc. To incorporate legends and tables were demonstrated to students through examples. The afternoon session involved students to have a hands-on to what they had learnt in the previous session. The students were asked to create webpages for a specific purpose like a page to play or download music and videos and view or download images.

3. Workshop on “PHP and Angular JS”

The Computer Department of Don Bosco College of Engineering organized a session on “PHP and Angular JS” that took place on the 29th and 30th Jan and 4th and 5th Feb 2019 at Don Bosco College Of Engineering. The session was attended by the Final Year Computer Engineering students to brush up the concepts of PHP and Angular JS for placement perspective. The coordinator for the session was Prof. Kiran Waghmare and the resource person for the session was Mr. Pranay Vernekar, Senior Developer, Creative Capsule, specialises in technical training and workshops.



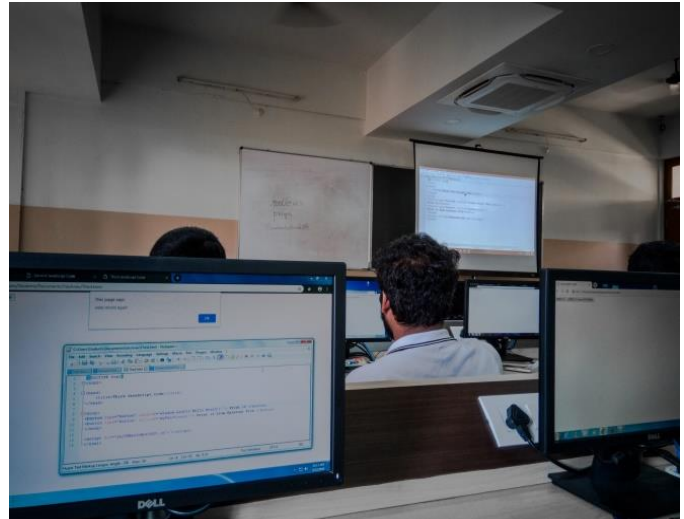
The session was intended to give students a complete picture of all the tools used for programming, programming languages and platforms they could use in various domains like PHP and Angular JS fro

App Development, Web Development. Also discussed the details about the placement procedure of Selecting and shortlisting for company placement. Different types of inspirational videos on the various ideas were shown to focused on final year technical placement. The session was very interesting and informative as well. The objective of this session was to guide and give a rough idea to answer the technical interview in campus interviews.

4. JavaScript Workshop

C-CODES Student Association along with the Computer Department organized a workshop on “JavaScript”. It was conducted on 23 March 2019 from 9:00 am-1:00 pm for the second year computer engineering students. 31 students attended the workshop. The resource persons for the workshop were members of a startup up team “Internship Station”: Shubham Jha, Rahul Naik, Rohit Sankpal and Akshay Saraf, they are also the ex- students of DBCE.

Students were first asked to answer an online quiz, the questions were related to JavaScript. This was to check the knowledge of the students in this area. The students were then given a brief introduction on what is JavaScript, it's importance, and the platforms used to write the code. This workshop also included a simultaneous hands-on coding session. An overview of the syntax was also given.



The students were also shown how JavaScript can be used within an HTML code(embedded) to add interactivity to the webpages, also how to import an external JavaScript file and use it in the HTML code. The students were also shown how they can display window alert (for error messages and outputs) pop-up. Further the students were taught about variables & objects, functions, arrays, operators, use of control flow statements, create forms etc. Also, form validation using regular expressions were demonstrated to the students. At the end of the workshop, students were given a small activity wherein they were asked to create a form that took information like name, date of birth, contact number, email and password. They were also asked to perform form validation on this form they created and display appropriate error messages. Then students were asked to answer the same online quiz they did at the start of the workshop and check if they understood the concepts covered in the workshop.

5. Workshop on NODE JS

C-codes association along with the Computer Department organized a workshop on Node JS. It was conducted on 27 April 2019 from 1:00 pm to 5:30 pm for second year computer engineering students. Around 20 students attended the workshop. The resource person for the workshop was Mr. Adnan Sayed

from company One-Stop Solutions. The coordinator for the workshop was Prof. Siya Naik and Prof. Merwyn D'Souza.



Students were first introduced to what Node JS is all about, how it helps in making tasks simpler and how it can solve some of the problems that are not possible with the help of an example. This workshop also included a simultaneous coding session. Some of the basic commands like print and initialization statements particular to nodejs were told.



Students were further introduced to three types of modules (libraries) in nodejs : in-built modules, third-party modules and user-defined modules. Various in-built modules and their functionalities were explained to students. Programs were implemented which involves in-built modules. Installation process of third-party modules were demonstrated to students and programs using these libraries were also performed. Students were taught to create their own module (user-defined) and use these in the programs. Session was concluded by writing a code that behaves like a calculator.

EXPERT TALKS

A. Seminar on “BlockChain Technology ” (Industry Institute Interaction)

by Aaren Miranda (Qibee)

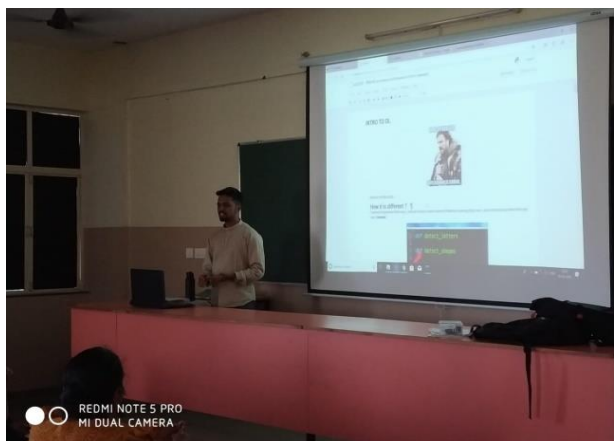
On February 9, 2019, the C-Codes Student Association in association with the Department of Computer Engineering organised a technical talk on Blockchain which commenced at 11:00am. The session was attended by 95 computer engineering students of S.E Comp and T.E Comp. The speaker for the Session was Mr. Aaron de Miranda Colaco who is a Blockchain Consultant at the tech company Qibee. The coordinators for the seminar are Prof Amey Tilve, Prof Manisha Faldessai and Prof Merwyn D’Souza.



The session begin with an introduction to blockchain wherein Mr. Aaron spoke about what is blockchain? Its properties and its years of adoption since 2016. He then explained about Bitcoin and how it was founded. He introduced the students to “Ethereum”, an open source, public, blockchain based distributed computing platform. He also mentioned the two types of blockchain namely public (Ethereum, Bitcoin) and private (Bankchain, Hyperledger). The students were also made aware of the various field in which blockchain could be used if anyone was interested in taking it up for their final year projects. It was a good experience for all the students who attended the seminar and gained new knowledge beyond the curriculum. The session was concluded at 1 pm.

B. Guest Lecture on “Deep Learning ” (Industry Institute Interaction)” by Mr. Saurabh Kanekar, Goa

Final Year Students of Computer department attended a seminar on “Deep Learning”. It was organized by C-Codes Student Association along with the Computer Department on 9th February 2019. The resource person for the workshop was Mr Saurabh Kanekar, Junior Research Fellow, Don Bosco College of Engineering, Fatorda and Prof Amey Kerkar..



Mr Saurabh spoke on the following topics: Introduction to Deep Learning, Traditional programming versus machine learning, Types of machine learning, Structure & components of neural networks, Gradient Descent, Backprop, Different architectures of Deep Learning models, Tools & platforms and programming frameworks for developing such applications. The session was concluded with an interactive question and answer session. The coordinator for the workshop was Prof. Merwyn D'Souza.

STUDENTS PARTICIPATION IN SPORTS ACTIVITIES

Sr.No.	Type & Level of Sports Activity	Date (s)	Organized by	Number of Students	Award/ Prize won	Name(s) of Students
1	Handball (M)	5 th February to 11 th February 2019	Goa University	6	Nil	Fletcher Fernandes Antony George Nelson Soares Zinho Fernandes Juel Fernandes Samuel Crasto
2	Basketball (W)	19 th to 21 st September 2018	Goa University Venue: Indoor Stadium	4	Nil	Rose Rhea Rebello Stella Tom Nargish Khan De Noronha Kezia Rhea
3	Kho-Kho (W)	13 th to 15 th Feb. 2019	Multipurpose High School Borda	1	Nil	Rutvija Naik
4	Cricket (M)	21 st Feb. to 18 th March 2019.	Goa University	2	Lost in quarter Final	Pranav Phadte Rahul Naik

5	Volleyball (W)	5th February to 11th February 2019	Goa University	3	Nil	Sheena Mashelkar Nargish Khan De Noronha Kezia Rhea
6	Cricket (M)	21 st Feb. to 18 th March 2019	Goa University	2	Lost in quarter final	Rahul Naik Pranav Phadte

STUDENTS PARTICIPATION IN CULTURAL ACTIVITIES

Sr. No	Type & Level of Cultural Activities	Date (s)	Organized by	Number of Students	Award /Prize won	Faculty Coordinator	Name (s) of Students
1	Bible Quiz Intercollege	8-9 Feb 2019	Rosary College	2	3rd prize	Amey Tilve	Samuel and Ceasar
2	Battle of Bands	16 Feb 2019	Chowgule college	4	2nd prize	Amey Tilve	Samuel, Zinho, Princeton, Jonny
3	Battle of Bands	16 Feb 2019	Goa College of Architecture	4	3rd prize	Amey Tilve	Samuel, Zinho, Princeton, Jonny
4	Debate Competition	12th March	GVMs Ponda	1	2nd prize	Amey Tilve	Stella Tom

STUDENTS PARTICIPATION IN TECHNICAL EVENTS & COMPETITIONS

Sr. No.	Seminar/Workshop / Technical Events/Conferences /Training programmes etc.	Date (s)	Organised by	Number of Students	Level of Students	Award/Prize won
1	ESCAPADEC 7.0	2 April 2019	Rosary College	2	BE	3rd prize

FACULTY INITIATIVES

PAPER/ JOURNAL PUBLICATIONS and PAPER PRESENTATION

1	Vivek Jog	Systematic Investigation and performance Study of authentication and authorization techniques of IoT.	International Journal of Knowledge-Based and Intelligent Engineering Systems
2	Gaurang Patkar	POFGURST: an expert intelligent system for mechanized oil palm fruit evaluating framework	International Journal of Intelligent Engineering Informatics, 2019 Vol.7 No.1, pp.89 - 106
3	Kiran Waghmare	Sentiment Analysis Modeling for Fake News Detector	National conference on "Recent Innovations in Engineering Science, Technology and Management – NCRIESTM-2019"
4	Kiran Waghmare	Cardiac Classification Model for Remote Monitoring using Android app Cardiac Classification Model for Remote Monitoring using Android app	National conference on "Recent Innovations in Engineering Science, Technology and Management – NCRIESTM-2019"
5	Kiran Waghmare	NEUROREHABILITATION WITH BRAIN COMPUTER INTERFACE FOR INDUSTRY WORKERS	69 th National conference of IAHO Occucon 2019.
6	Gaurang Patkar and Amey Tilve	A Mechanized Harvesting and Automated Grading Technology for Oil Palm Fruit	International Journal of Computer Sciences and Engineering

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

Sr. No	Seminar/Workshop/Short Term Courses/Conferences/Training Programs etc.	Date	Organization	No. of Faculty Deputed/Permitted	Name of the Faculty Participated
1	Workshop on Moodle conducted by IIT Bombay	15 March 2019 (1 day)	DBCE	6	Gaurang Patkar, Amey Tilve, Siya Naik, Mithil Parab, Vivek Jog, Ankit Tiwari, Amrita Naik.
2	Workshop on Python by IIT Bombay	22 June 2019 (1 day)	DBCE	13	All COMPUTER Department Faculties.
3	Introduction to robotics by eyantra IIT Bombay	11-12 January 2019 (2 day)	DBCE	3	Amey Tilve, Amey Kerkar, Manisha Faldessai

UPCOMING EVENTS

- **Two-Week Internship Program from 1st July to 13th July 2018 for TE and BE students on Jango, Python and Maxcell training.**
- **Three days workshop on "Ethical Hacking with Penetration Testing" for SE & TE Computer students.**
- **INSPIRUS 2K19 (18th and 19th September 2019)**
- **One Week Faculty Development Programme in November.**