



DEPARTMENT OF COMPUTER ENGINEERING

COMPUTER NEWS

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From the Editor's Desk

Greetings, and welcome to the Department of Computer Engineering newsletter. The objective of the Newsletter is to enhance the Departments ability to meet the needs of students, to offer them services, and to provide them with an opportunity for increased inclusion and participation in the activities and development of the students and the department of Computer Engineering community. So in our newsletters, we aim to provide useful information and advice to students. A welcoming community for all, and information about activities Computer Engineering has hosted or will host, at ACM events or otherwise, to help accomplish these aims. Department of Computer Engineering is a vibrant group made up of a diverse group of students ranging from tech savvy students to professionals, and we have been quickly growing in numbers of technically smart groups. We hope to be a great asset to the department and be aspiring Entrepreneur and problem solvers, and we hope you find this newsletter informative and useful. If you ever have suggestions or comments, you can reach me at imran.dbit@dbclmumbai.org

We appreciate the hard and relentless effort put up by the student community, Alumni and the faculty in bringing this newsletter in time. I express my deep sense of gratitude to the Newsletter team, being ably led by Ms. Cynthia Mascarenhas and the student community including Ms. Sasha Pais, & Mr. Calvin Crasto.

-Mr. Mirza Ali Imran



“**Change**
is the end result of all **TRUE Learning**”

-Leo Buscalgia

New Initiatives

Centre of Excellence in Human Machine Intelligence was initiated in the academic year 2017-18 in the Computer Engineering Department at DBIT. Under this centre, faculties have received minor grant from university of Mumbai and have also published papers in reputed national and international journals. The faculties have undergone “Design Thinking” workshop held in college and were also involved in writing research proposals for funding agencies.

Centre of Excellence in Geo-Informatics was initiated in the same academic year. Under this centre recently an IEEE GRSS event in collaboration with IIT and IEEE Mumbai Chapter was organized by the team of faculties working under Geo-Informatics centre. A team of faculties worked with Dr. Jitendra Shah and Dr. Sumit Sen for project work and curriculum design. Under this center, faculties have received minor grants from The University of Mumbai and have also published papers in reputed national and international journals.

Certification Courses: As it is important to enhance the skill sets of the students apart from regular academic learning, the department initiated a few value added courses for students such as Android Certification.

Industry Interaction: Department encouraged more number of students to undergo internships through DBIT training and placement cell. To make students aware of the latest trends in industry, faculty conducted expert lectures by inviting experts from esteemed institutions and industries.

Consultancy: In the last academic year, the department had undertaken consultancy projects from industries such as Amplisoft.

Research: When the statement ‘Research for personal growth’ was absorbed by the faculty, the research-oriented culture began taking shape due to self-motivation among them. 5 Minor research proposals were accepted by the University of Mumbai and faculties received the minor grant. 20 papers were published by the department faculty in the academic year 2017-18.

Faculty Development: Good number of faculty from the department have attended different workshops, Short Term Training Program at premier/esteemed institutes. Some were also invited as guest speakers in respective domain by renowned institutes in Maharashtra. The faculties have even undergone certification programme on First Aid as well.

The heart of any educational institute always lies within its students and their participation. Such a Student Chapter called ‘Association of Computer Machinery’, (ACM,DBIT) is an essential part of the Computer Department of DBIT.



ACM ENDEAVOR

ACM kicked off the academic year with a CMD workshop which was held on the 12th of July 2017



An **ADT competition** was held on the 15th of July 2017, so as to select members for the ADT team. The competition comprised of 6 questions - with difficulty ranging from easy to medium for the selection process. The scoring was based on percentile with focus being on solving as many questions as possible. At the end of the competition, based on performance, 2 successfully compiled solutions was set as the benchmark for selection.

Out of the total 16 participants, Mr. Prayuj Pillai and Mr. Afi Adhikari won the competition, solving all 6 questions.



Hunt for the best

The programmer's club of ACM, conducted a programming competition for all the second year students of DBIT on the 18th and 24th of July 2017. This competition constituting of two rounds, proved to be a good platform to get the students to pick up an interest for programming by making the problems much more different from what they deal with while coding on a regular basis. Out of the total 86 participants, Mr. Afi Adhikari from COMPS and Mr. Pratik Nerurkar from IT emerged as winners.



A workshop on **GITHUB** was held on 5th of September which was attended by 28 students from the second and third year of the department. Two modes of Github, namely offline and online were explained and various commands used for offline working of github were displayed and explained too. Different assignments were assigned to students to make sure they understood the workshop.

Lets Get Photoshopping....



A Workshop on **Photoshop** took place on the 24th of July, 2017 which saw the participation of about 20 students. After a brief introduction which was given by Mr. Glen Martin, Mr. Amey More - the design head started and led the session and introduced some of the basics of Photoshop along with setting default values for the application and also the concept of layers and vectors were introduced.

Welcoming the Freshers

ACM organized a workshop on **HTML** and **CSS** for particularly the first year students on the 18th and 26th of September. The use of various HTML and CSS tags and their applications in web development were discussed. Doubts regarding the topics were also answered by the ACM volunteers present. At the end, all the 20 participants were encouraged to continue attending such workshops in future and also continue exploring the topics covered by the team by visiting the available sites.

'Tis the season to be Gaming

As a prelude to its annual online technical festival 'Teknack', ACM held the first edition of 'Teknique', a three day workshop on 'Web-based game design and development' on 30th September, 1st and 2nd October, 2017. Aspiring engineers from different colleges all over Mumbai participated in this event, which aimed at helping them develop and enhance their skills required to design games



and thus, realize a sense of game development in them. The key speaker for the session was Mr. Rudraprasad Das (Ex-Student - DBIT, Kurla) who, along with Mr. Vineet Suvarna (Technical Head-ACM,DBIT) and other members of the

Bridging the Innovation gap between Academia and Industry

The Department had organized "**CONNAISSANCE- BRIDGING THE INNOVATION GAP BETWEEN ACADEMIA AND INDUSTRY**" on 13th & 14th September 2017 which was conducted by various experts from the industry for the B.E. students. The Experts on the panel were Rizwan Shaikh - Pristine InfoSolutions, Ms. Nita Khare – TCS, Mr. Atul G. - TCS, Muzaffar Kazmi– BSNL Assist Director, Dinesh Tavasalkar – Monkfox(Bangalore), Chandani Ravindran Tactopus and Prof. Nadir Charniya – VESIT.



An Industrial visit for the S.E. & T.E. students of the Department was organized on 3rd October 2017 at I-Medita, Pune. I-Medita is a Cisco training institute. I-Medita also provides Industrial visits to colleges to make students know about the actual scenarios of the networking technologies. I-Medita is one of Maharashtra's biggest Cisco labs which are assessable 24*7.

An Eight day Android workshop was organised wherein the students learned to create different Apps, which was a complete hands-on experience. Some of the apps created were a Music App, SimpleLogin App, Table App, Email App, SeekBar App, Camera App, Snackbar App, Website App and much more! This workshop was attended by 41 students of the second year. This android certification course, finally came to a crescendo on 3rd September, 2017 with a competition to find the '**The Best Android Developers**', that 3 of our students namely Anto Christopher Jerald, Ivan Maria and Mitchell Creado triumphed.



“The world could be your Oyster but you could be using the wrong fork.”

The Faculty here at Don Bosco does not only focus at the technical aspect but also on the other aspects of life that help students improve and work on one self. One such example that demonstrates this is the **ETIQUETTE AND GROOMING SESSION** which was held for Semester V students of all branches of DBIT from 9th to 13th October, 2017. The motive of the event was to identify and solve professional and ethical problems in the given sample business situations and demonstrate knowledge of table etiquette and a sense of presentability in terms of dressing and grooming in all professional situations. The seminar was conducted by the faculty of the Department of Hotel Management Studies of DBCL. Overall, the seminar was received and appreciated well by a majority of the students, with almost 93% of those who attended agreeing that the sessions helped them in their employability and that they would recommend it to their juniors.



The Department held its Parent-Teachers Meet on 2nd September, 2017. The parents were informed beforehand about the same via SMSs. The agenda for the meeting was to discuss about the first Internal Assessment result and the student's attendance. Various positive feedback were received from the parent's side regarding the teaching learning process followed in the department. The main concern the parents showed was regarding the placement status of various companies coming to campus. Certain parents were worried about their ward having a casual approach towards studies and more inclination towards other activities. Through the feedback forms it was analysed that most of the parents liked the facilities

And, we got lost in time

The Computer Department day known to most of the students as “ALL GO RHYTHM” was organized on 23rd August, 2017 in a robust way. The theme of the event was “LOST IN TIME” which was apt as it is indeed, ‘time’ that has redefined our lives. The event started off with a formal event, where few of the guests addressed the students. Many students who participated in various intra and inter college competitions were given recognition in the form of awards and certificates. The toppers from the 3rd and 4th year were awarded for their efforts in academics. The Informal event was kick-started with the 4th year band paying a tribute to Chester Bennington (Linkin Park) and then a short film which differentiated current engineering techniques from the past. It surely provided an air of comic relief among the students and teachers alike. A group of 2nd and 3rd year students sang to the tunes of “Ek ajnabee haseena se”,

“Love the way you lie” and various other songs adding to the lively and energetic environment created by the various events.

Being in the final year of engineering is a bitter-sweet moment for all the 4th year's. This being the last department day for them, all the students of the 4th year presented a dance as a class for the last time. In between all this, there was the department video bringing out the true essence of what makes the computer department unlike any other department. ALL GO RHYTHM, ended with the students grooving to the tunes of music in the DJ session. The event was truly a memorable one for all those involved in making it a great success!!





ALUMNI Q&A

How has your educational experience measured up to your expectations?

A. In DBIT, my professors have always pushed me to do more than learn and regurgitate facts. The ability to think critically and analyse gave me the tools to look at a situation and come up with innovative out of the box solutions which has been of great help in the outside world. My personal best experiences we're being the Front - End Developer for the creative landing pages of DBIT's online festival "Teknack" for two years (2016-17 & 2017-18) in a row, becoming DELL's Campus Ambassador for DBIT (2016-17 & 2017-18), being the Server Administrator for the idealistic event called "HackerRun" a part of DBIT's Colosseum festival (2016) where my Plug 'n' Play code was used by the players, it was made tough to crack, And organising and Volunteering for the "Ethical Hacking & Mobile Hacking workshop" (2016).

Did you get exposure to sessions or guest lectures by practising professionals? Are these well organised and well presented?

A. Yes, I did get exposure to some great guest lectures by practising professionals like the Guest Lecture by a Cyber Security Chief, Training Sessions organised by the Training & Placement Officer, Hence as per my opinion they are well organised.

Mr. Alister Lobo is a 2017 pass out who is Currently working as a Web Developer & Designer at Kissdoodles, A Mumbai & San Francisco based enterprise that empowers ambitious, innovative brands to build a vibrant presence

Assuming DBIT was a person what would you want to convey to DBIT right now?

A. Dear DBIT, Thank you! for making me go from the ground floor till the first floor in the 4 years. It was a really good learning experience for me. You helped me stay focused on my studies (not copy in my exams as well!) and ECA and never let an A.T.K.T. touch me. Thank you! for sheltering me in your Chapel when I needed you the most & keeping me safe and sound for the 4 years especially during bad weather. Thank you! for not letting any sins take me over for good & helping me to be earnest with all my work so that I prosper well in life. And a Really Big Thank you! to the all the faculty members who helped push me beyond my limits and helped me find new outlooks within my field.

-Interviewed by Cynthia Mascarenhas

Did You Know?

LG Signature OLED TV R

LG has managed to install its flexible OLED panel into a base that it can retract into. And it's not just there to hold the panel; it has a whole speaker system integrated into it as well. It spans 65 inches, does 4K, HDR, and it looks amazing. It's straight out of the future. The TV has LG's new A9 Generation 2 processor built in, which gives it A.I. for sound and A.I. for video. A.I. for sound basically expands the sound signature, so instead of it sounding like the audio is coming from the speakers themselves, it opens up the sound plane. And it gives it a much more spacious sound.



A.I. for video is going to take a reading on your room's lighting, and adjust the HDR curve on this TV based on the ambient lighting. If you're in a perfectly black room, it's going to allow you to get those perfectly deep blacks. If it's in a really bright room, it's going to adjust the curve so that it looks better in that room. The TV screen can be operated in three modes. In Full View mode, you get the large-screen viewing experience while Line View mode allows the TV to be partially unrolled, allowing for management of specific tasks that do not require the full TV screen you can choose from features such as a Clock, Frame, Mood, Music and Home Dashboard. In Zero View, all 65 inches of the TV is hidden from view, tucked away in the base, while you can still use the Dolby Atmos audio system.



Did You Know?

TravelMate **[Suitcase that Follows You]**

TravelMate Robotics has created a smart suitcase called the TravelMate that follows you wherever you go. You can control the TravelMate settings with your smartphone. The TravelMate has a GPS chip so you can track it if it gets lost and it has a USB port for charging your devices. The battery life is about four hours, but you can hold it like a regular suitcase after that. There are a number of sensors built into the TravelMate so it will not bump into obstacles and the wheels lock up if an unauthorized person takes it. And it can roll flat or upright. There are a number of other sophisticated features built into the TravelMate. You can say "stop" or use hand-based commands. A digital scale can tell you how much the TravelMate weighs. And you can lock/unlock.



Contributed by Mr. David Mathew

5G **The Next-Generation Mobile** **Communication Standard**



With substantially faster speeds and vastly lower latency times, the next-generation networking technology will interconnect everything from cars to computers to smart homes. Like the Internet back in 1999, this will change everything. In 2019, every major carrier will have pilot 5G programs up and running. It will bring along with it things like immersive virtual reality worlds that don't suffer disorienting lags from slow networks. It means being able to visit the best doctor anywhere around the world, and maybe even undergo robotic surgery, thanks to telepresence technology. And of course, it means faster mobile data speeds.

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A bijou note from the Co-Editor

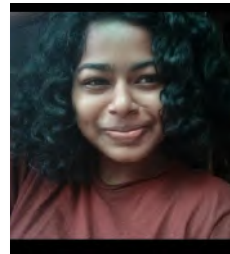
Dear Readers,

I hope you relished this edition of our Newsletter. I would like to take this opportunity to thank everyone who has immensely contributed towards this edition to make it successful. It gives me colossal pleasure in introducing the...

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