



DEPARTMENT OF COMPUTER ENGINEERING

COMPUTER NEWS

Volume 1 Issue 3 January 2019

From the HOD's Desk

Welcome to the Department of Computer Engineering. It gives me pride and pleasure to introduce the Department and its newsletter. Computing has revolutionized our world as we know it in the past two decades and will continue to serve as the core of all technologies in the 21st century. It provides the most demanding skills one can learn to excel in his profession. Department of Computer Engineering is committed to excellence in teaching, research and inculcating a sense of pride and confidence in our students. The objective is to empower our students with latest technical knowledge and skills by providing them with the best teaching faculty, state of the art lab facilities and excellent research and development environment. The motivation is not just to nurture their technical skills but to provide professional grooming and guidance so that our students come-up as thorough professionals and inspiring individuals. To meet the objectives the department pays special emphasis on teaching and hands on practical work.

The students exhibit their learning in the final year projects. The final year projects of our students have won many awards. Department of Computer Engineering endeavours to provide best professional opportunities to our students and look forward to their bright future. We as a team resolve to take the department to heights of success and glory and prepare for the forthcoming challenges. Thanks to the efforts of our staff and students. I invite you to browse our newsletter to get a glimpse of some of the exciting opportunities available through our department.

**-Ms.Sana Shaikh.
Head of Department.**





“Bridging the gap between the educators and students.”

A counselling session was held for the third year students on the 11th of July 2018. This session included bridging the gap between the educators and students to make the college years a success, understanding depression, anxiety and how to help self and others if they have such issues. The session also focused on understanding suicidal tendencies and preventing suicides of the loved ones. The students gave the feedback of having more activities and videos to make the session more interesting.



“An Android Certification Course.”

An Eight day Android certified workshop from Monfox was organized where in 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 android certification course attended by 28 students, finally came to an end on 6th October 2018 with a competition to find the ‘The Best App designer’, that 3 of our students namely Mr.Arjun Chavan, Mr.Varun Soni and Mr.Jovin Nicholas triumphed.



“Chase the Vision, not the money, the money will end up following you”

An Aspiring Entrepreneurship workshop held on 13th September to 17th September 2018 was attended by 22 students from the Second year of the Department. The Speakers for this workshop were Mr.Venkatesh and Mrs. Tejaswini Venkatesh from the mbtla Udyojakata Kaushal Vikas Sanstha. All these five days had a theme related to business associated with it. The workshop revolved around a major theme called “IDEA” since it is that aspect because of which a new business is born. On the last day, all the 4 groups presented their Business Plans and were rated by the other 3 groups. Group ‘LANA’ consisting of Cynthia Mascarenhas, Sayantan Mahato, Taaha Kazi won the cash prize of Rs.3000 for presenting the best Business Plan.



FILMFARE OR THE OSCARS?

On the 24 th of October 2018 the Department of Computer Engineering was all ready for the much awaited Department Day celebration. The theme of the event was “Bollywood Vs Hollywood” the theme on its own was quite a unique thing. 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. The event started off with a formal event ,where few of the guests addressed the students. Many students who excelled in academics were given recognition in the form of awards and certificates. For

the First time the Computer Department organized a Pre- Comps Day event which included sports like Box Cricket, Carrom, table tennis and a PUBG Tournament , too! Winners of the same were felicitated. Not only students, but also the teachers: Dr. Amiya Kumar Tripathy and Mr. Imran Ali Mirza for their selfless and dedicated contribution to the department and Ms. Shainila Shaikh for successfully completing M.E were felicitated. The event began with an outstanding Performance by the Band consisting of students from SE, TE and BE. The next event was a fantastic dance performance by the Students of the SE which left the crowd in awe. There was a Rap Battle that happened which was followed by an amazing group dance by the students of the TE. The most awaited performance of the evening i.e. the faculty performance was what followed the Beat Boxing. The Faculty performance was a Ramp Walk with some students of the BE followed by a dance performance by Sejal and Dipti Ma’am. A piece of Stand Up comedy was performed by Mr.Aarish Iyer which left the crowd in fits of laughter. As we approached the end a short film influenced by the movie Sanju was screened by the BE and for the final event of the day we had the students of BE perform a group dance. The evening finally came to an end with the JAM session having left all the chairs stacked and feet up on the dance floor.



ACM WORKSHOPS

CODE IT OUT!

Code it Out- a coding competition was organized by the ACM Technical Team and held on 26th July 2018 wherein 19 students participated in the same. The purpose of the competition was to make students evaluate their technical aptitude through a competitive environment and also give them an idea of how actual competitive programming events occur. Every participant was given a separate PC with the proper setup (i.e. Browser, compiler and text editor). They were seated in alternate PCs and were deprived of internet access to avoid malpractices. The questions of the competition were compiled into an easily accessible website which was hosted locally and was accessed through the LAN using the local server's IP address. A total of 3 students were able to solve a least one problem out of the 4 given problems with the highest no. of problems solved being 4. The competition was a good learning experience for the students.



The **MongoDB workshop** was conducted by ACM for the students of T.E Comps on 7th September 2018. The workshop started with Gladys Thomas introducing MongoDB to the students by listing the various pros and cons of using MongoDB and also about the current usage of MongoDB and why it is essential to know how it works. The various operations which can be performed on a database were demonstrated by Welisa Lewis & Jaffrey Joy.



Welisa Lewis demonstrated instructions used to CREATE a Database and the remaining instructions such as READ, DELETE, UPDATE were demonstrated by Jaffrey Joy and students were instructed to try the same on their computers. This workshop aimed to provide an opportunity to students to connect the theoretical knowledge of DBMS with a practical application of MongoDB as well as giving the student an opportunity to level up their software development skills.

PHOTOSHOPPING...

A Training Workshop for the design team was organized by ACM and held on 21st August 2018. The purpose of the workshop was to impart knowledge of Photoshop to the ACM design team who would in turn use that knowledge to create posters for various events throughout the year. The workshop was taken by the heads of the ACM design team. It was divided into 2 sessions. The first session focused on the various tools used in Photoshop and their purpose. The second session on the other hand saw how a poster was made from scratch. Further, a Workshop for about 26 first year students was organized by the ACM design team on the 24th of August 2018.



#BTS of a Web

A Web Development Training Session was conducted on 30th August 2018 so as to train the ACM core team members to conduct beginner web development workshop for the first-year students. Later on, a Web development workshop was organized for the first and second year students on 29th September 2018. This workshop constituted of 3 phases namely, HTML, JS and CSS. The students were first shown a complete website, purely based on HTML to give them an idea of what they were going to learn in HTML. The entire website was broken down into small parts that are easy for first timers to grasp. A basic JS file covering almost all important aspects of JavaScript was taken as reference and broken down into tiny, easy-to-grasp, relevant parts followed by a basic summary of CSS.



A Unity Workshop was organized on the 25th September 2018 which focused on 2D game development and Canvas understanding and developing a proper 3D android game with proper Game Objects, Scripts, Physics in virtual environment.



Faculty Industrial Visit to Hindustan Aeronautics Limited, Nashik on 23rd November 2018.

ALUMNI TODAY



Ms. Jovita Mathias currently a business analyst is a 2018 pass out who was also the General Secretary during her last year.

On being asked to write a letter to DBIT, here is what Ms. Jovita had to say...

Dear DBIT,
Thinking of college days overwhelms me with so many emotions that it's truly a struggle to find a perfect start to this letter. A myriad of memories both good and bad come to my mind the moment I think about 'DBIT'. But above all, I want to thank you for giving me countless opportunities to learn and make me grow into the person I am today. I've learnt to try, fail, get back up, try again and succeed. At DBIT, we're not merely students who pass out eventually, we're a close knit family who share a very personal and unique bond with each other. In so many other colleges, the teachers don't even know the students' names! Whereas, DBIT is like a true home. All of our teachers know us, love us immensely and take care of us like our very own mothers. This is a home in which teachers go to any lengths to address the student's queries even outside the classroom. This is a home in which I knew that if I was ever feeling low, I could easily confide in any of our faculty members because they genuinely wish the best for me. This is a home in which I was given the freedom to take action on the ideas I had. Be it anything - a start up or a game or an event or a club, DBIT always hears students out, offers assistance and helps to implement it. The sweetest thing was how each of our Computer Department teachers actually took some time off their busy schedules to write personal letters for each of us on the last day of college! That was the loveliest thing a faculty could ever do! Currently, being a Business Analyst, I need to always be on my toes, understand and communicate with all kinds of people

on a full time basis. Active involvement in organising most of our college events like Colosseum, Hysteria, Alumni meet, Innovex, Christmas Ball and other council events, volunteering for Teknack, NSS, TPC work and ACM gave me the exposure I needed and taught me how to manage time, deal with different kinds of people and other expertise, easily giving me an edge in the corporate world. It's only been a little more than half a year since I've passed out from college but I still miss college a lot. These memories are always going to be etched in my heart forever and I can't be thankful enough to be a part of the DBIT family! Message to my dear juniors: I know DBIT can get a little strict when it comes to attendance but trust me, DBIT is the ideal place to make you grow as a whole. If you have the will to do something, nobody can stop you from doing it. Get involved, build a network and make the most of your time in college. When you see somebody who needs help, reach out to them! If you have ideas to make our college better, speak up! If you've been a bathroom singer all your life and you think you can sing, sign up for your fests! If you want to learn people skills, volunteer! Life's too short to restrict your wings and you'll never learn unless you try. In the end, who you are and what you make of yourself matters much more than the marks you've scored on paper.

- Jovita Mathias

General Secretary (2017-18)

"TECH MEETS FINANCE, FINANCE MEETS TECH"



The stock market was started in the late 18th century and became a very fruitful way of companies to raise company and for common people to become rich. And people have been trying to figure different ways to make money in the stock market and mostly done by human beings. And as time has passed and with the development in the field of computer science and mathematics gave rise to a new field called quantitative finance which, is a field of applied mathematics, concerned with mathematical modelling of financial markets. The people that use algorithms for trading are called as quants



Over the past the 30 years there has been a huge shift from traditional trading to algorithmic trading. The total volume of trading done in the US by algorithm is nearly 70% and in emerging markets is about 40%. Due to this the need for computer engineers in the field of finance has been increasing. Use mathematical and statistical models to calculate the behaviour and to perform various other simple calculations like risk and reward, revenue, and complex calculations like discounted cash flows and options pricing and various other metrics that is used to select which stocks, bonds and currencies to buy using various algorithms and programs. The 21st century has seen an explosion in the popularity of electronic trading based on numerical algorithms. Rather than live traders frenetically pacing the floor of the New York Stock Exchange (NYSE) calling out buy and sell orders, computer software infiltrates various stock exchanges, buying and selling shares when prices hit levels the algorithm has predetermined are profitable. While the computer algorithm does the grunt work, it is quantitative analysts who are the brains behind these algorithms. The best in the business make their employers millions of dollars on a monthly basis simply by programming algorithms that are fast and efficient enough to locate the best trades before the competition.

-Written by Mr. Lance Dias

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A bijou note from the Co-Editor

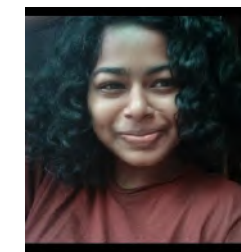
Dear Readers,

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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