



DEPARTMENT OF COMPUTER ENGINEERING

computerNEWS

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From the Editor's Desk



It gives me great joy to meet you all through this newsletter - a great way to communicate and be creative. Enjoy our department semi-annual newsletter period from (January 2021 - June 2021). The COVID-19 pandemic has ended lives, broken families, decimated industries, and undermined institutions throughout our planet. I see it, our reactions to this disease have spotlighted our strengths to move on with this pandemic to face a lot of newness and uncertainty.

DBIT management, department faculties, non-teaching staff and students are working towards making this lockdown a meaningful and fruitful one. I saw examples of faculties rising to each day's challenge with care for students and thoughtful attention to reaching educational goals using newfound techniques and technologies. Hats off to students!! Despite the circumstances, students from department utilized their time to conduct more exhaustive discussions online with faculties and peers to create outstanding final year projects, mini projects, ACM activities, and showed their intellectual potential and creativity. I thank all who contributed to this endeavour.

This newsletter, indeed, is an honest effort to showcase department activities, innovation in teaching, mentoring, placements and internships, students and faculty achievements during this difficult time.

I thank the head of the department Ms. Sana Shaikh and all the faculty members of the department for their inputs to this newsletter. I am thankful to everyone who have contributed their articles for the newsletter. I express my deep sense of gratitude to the Newsletter team - Mr. Hariharan Iyer, Ms. Briana Rajan, Ms. Riona Dsouza and Ms. Sonal Chaudhari for their creativity, innovation and sincerity to make this newsletter in present shape.

I truly hope that the pages that follow will make an interesting read. While we have made a sincere effort towards compilation of this newsletter, any error is deeply regretted. We look forward to your comments and suggestions!

May God Almighty keep us all safe and healthy. Happy reading!

*With best wishes,
Ms. Dipti Jadhav*

From the HOD's Desk



"When you face difficult times, know that challenges are not sent to destroy you. They're sent to promote, increase and strengthen you". Pandemic has tested our abilities and endurance. We as a team have transformed the challenges thrown into our paths into opportunities.

One of the prime challenge was to give students in-campus experience on virtual platform. It was equally challenging to keep them engaged and encouraging them through online platform. However, we took upon this challenge and converted into opportunity by incorporating fun, innovative pedagogies such as Role play activities, Flip Class room, Interactive assessment tools, Virtual Labs, Openborad-Pentab, short animated videos etc. These smaller activities in various subjects made big impact.

Department always encourages, motivates and supports students not only for their academic excellence but also help them to fast track their professional journey. For this, faculties organized trainings, guest sessions, mock test for our students. One of the immediate outcome of these efforts is around 16 students received internships from various companies. And almost 80% students got placement with highest package of 12 LPA.

In this dynamic field, there is a constant need for up-gradation not only for the students but also for the faculties. Despite the busy schedule, faculties have not let their guards down and have continuously upgraded themselves with the need of the current demand.

Almost all faculties and students completed MOOC courses. With student-faculty partnership, department was able to submit 17 research papers in various reputed conferences. Out of which 9 research papers have been published successfully.

It is our constant endeavour to maintain highest quality of departmental processes, for which we take into consideration opinion of all stakeholders like mentors, industry experts, parents and our alumni.

I would like to thank ACM team for all their contribution towards the betterment of ACM and in organizing all the events and workshops that took place in this year. Teknack has been a great success. A special mention to new initiative by ACM – FlockFlair, which is a platform for making industrial projects.

I would like to thank the management for their unconditional support and guidance. Department wouldn't have move ahead without the hard work and never-say-die attitude of my colleagues. It is their dedication and commitment which has helped to achieve our targets and goals. Last but not the least a special thanks to the Editorial team for their painstaking efforts in designing this newsletter.

I would like to invite you all, to go through this newsletter showcasing the activities, progress and achievements of the department. Looking forward to having many more future editions.

**With best wishes,
Ms. Sana Shaikh**

A New Face to Online Teaching

After the onset of Covid, teaching shifted completely to the online mode and the major question that popped up was how to conduct online sessions without compromising on the effectiveness and efficiency. The always striving department of Computer Engineering resorted to platforms like Zoom and Google meet to conduct lectures. Along with that, use of powerpoint presentations, moodle and many other tools in accordance with the requirements of the subject made online teaching and learning nothing less than offline practical sessions.

Distributed Computing course's teaching involved breaking down learning into smaller units, assigning real-world case studies to individuals, creating question papers in a 'non-Google-able' way which focuses not on keywords but the understanding of the student and inviting students to share their ideas and opinions. Virtual laboratory experiments to understand theoretical concepts including a challenging assignment in which students find a unique solution was conducted in **Human Machine Interaction** course. As a result, 15 mini project implementations and 11 review papers were written by 26 groups of students. Collaborative learning and recorded video lectures were used for effective teaching of **Natural Language Processing** topics. **High Performance Computing** elective teaching included conducting interactive lessons using flipped classroom and peer learning. The same topics were quizzed on Quizizz.com. Innovative approaches for the **Project Management** course included interactive teaching using quizzes with the Menti-Meter and the provision of notes and tasks in Moodle. In each session, the students' video cameras were kept on. The faculty of DBIT worked hard to guide and as a result 25 Mini projects were developed using various cloud portals in the **Cloud Computing Lab**.



Mini-projects using Java, Python and google colab, MPI/OpenMP, AWS educate account for students were implemented. Use of high end features were studied and implemented via role-play and activity driven learning. Openboard & Pentab were used for teaching computational topics and subjects like **System Programming and Compiler Construction, Data Warehousing and Mining, Machine Learning, Cryptography and System Security**. Short Animated Videos based on the concepts, student driven lecture discussion and Pentab for highlighting concepts geared up **Enterprise Resource Planning** teaching. Under the subject lines of **Software Engineering**, 59 students got certified in Agile Scrum.

Mentoring

A mentoring session was organised for department faculties on 28th July, 2020 by counsellor Ms. Amrita and was attended by Fr. Nelson, Principal Dr. Prasanna Nambiar, Dr. Revathy Sundararajan along with all the department faculty members. The session aimed to discuss about the issues and concerns regarding the mentoring process in the present circumstances. Later, on 4th November, 2020 Ms. Amrita conducted a mentoring session for T.E. computer students on the topic “Online etiquettes and Professionalism”.

Teachers... Way more than teachers!!!

The role of active and engaged mentorship is crucial to the development of a student. Truly, mentorship is more than simply making students feel cared about and supported. If a student feels faculty members care about them as a person, encourage their goals and dreams, and challenge them academically, it has a positive lifelong impact. To ensure students of the Computer department never fall short of this support, a minimum of two one-to-one online interactions were made to happen with students by faculties from the department.

Modern problems require modern solutions!!!

There is no better teacher than experience and what would add more to this cake would be if these teachings were not so long ago. Keeping this idea in mind, the Mentoring Committee broke the gap between students and teachers by introducing peer mentors- senior students acting as mentors for their juniors with each senior student mentoring 4 to 10 juniors which was then adapted by the Department of Computer Engineering of Don Bosco Institute of Technology.

The preparation for this revolutionary movement started in July 2020 and with regular meetings with their counsellors, a concrete draft of the outlines and execution plan was framed.

The strict guidelines directed to the mentors were as follows:

- ***They are not there to provide solutions to the mentees’ problems but could discuss problems regarding subjects to be empathetic and share their experience to support them.***
- ***Do not get into any personal relationships with the mentees - if there are feelings of fondness for any mentee by the peer mentor (or vice-versa), they should immediately contact the counsellors.***
- ***Have a time frame, be professional and stick to it - the mentees do not schedule meetings beyond 7 pm and discuss not more than two topics in a meeting.***

The feedback from peer mentors were obtained for Sem I (May 2021) and Sem II (July 2021) and improvements were made accordingly.

The peer mentors from Computer Engineering department are: Hayden Cordeiro, Grejo Joby, Saloni Dhotre, Chryselle Fernandes, Jivin Varghese, Lav Sharma.

Peer Mentors Views



Understanding their issues and relating to them felt good. I could also solve many of their doubts and guide them to do well. It is important that they have someone like a mentor with whom they could talk and especially when it's a peer, it helps more. Sharing knowledge with them also felt really good.

- Grejo Joby

It was a stunning experience as I got to interact with my juniors and understood that motivating them is important and listening to not only their difficulties but also their achievements holds equal importance.

- Chryselle Fernandes

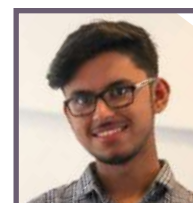


As a mentor, the opportunity to interact with the mentees helped me gain new perspectives. Helping them to get acquainted with online college activities, being able to guide them and forming friendships was a great learning experience.

- Saloni Dhotre

It is a great opportunity and experience to interact with them online as they don't have offline college where they can easily interact with the seniors, and in the first year they tend to have a lot of doubt and through online interaction it is a great way to solve their doubt and interact with them.

- Lav Sharma



Peer mentor has been a good initiative to meet the young students and to help them through their queries, as the students in first year were eager to learn and know more, being there to guide them was a great opportunity.

- Jivin Varghese

Overall, it was a great experience. Understanding their perspective was intriguing. It was a pleasure to assist them with their queries and doubts and inform them about various college activities

- Hayden Cordeiro



Internship 20-21

Sr. no.	Name	Year	Name of the company
1	Sangeeta Kaswan	BE	Evosys
2	Alan Tom	BE	Frappe
3	Rutuja Randive	BE	SS&C
4	Cynthia Mascarenhas	BE	Evosys
5	Akshay kumbhar	BE	Deltax
6	Christina Moraes	BE	SS&C Technologies
7	Vaishnavi Gadgil	BE	SS&C DST
8	Ruvim Rodrigues	TE	Backend Developer- Sequel-string
9	Grejo Joby	TE	Quetzal Verify Pvt. Ltd. Shantighar Social Service Society, Andheri
10	Anuja Vaidya	TE	Olance India
11	Piyush Sonar	TE	Sequelstring Solutions And Consultancy Pvt Ltd
12	Samarth Ganesh Khaire	TE	The Sparks Foundation
13	Athira Lonappan	TE	Fields Data
14	Manasi Anantpurkar	TE	Fields Data
15	Hayden Cordeiro	TE	Shantighar Social Service Society, Andheri
16	Pakshal Ranawat	TE	Shantighar Social Service Society, Andheri

Getting ready for the next phase

Nearing the end of the journey of computer engineering can definitely get students in a whirl storm of emotions. One amongst them would be the anxiety of securing a job and flying higher into the next phase of life. To ease this transition and to prepare students for further endeavors the Training and Placement Cell conducted the necessary training.

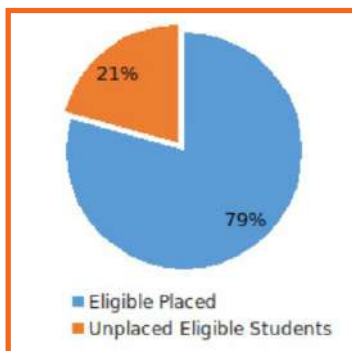
The first phase was an aptitude test for all students from which, the students who scored over benchmark score were given the choice to choose the training if they needed and all the students who didn't score the benchmark score had to compulsorily attend the placement training. There were **58 students** who attended the training from the batch of 2022. The training was taken by Mr. Chirag Thakkar. The placement training for the batch of 2022 was held from **March 7, 2021 to March 28, 2021**. It was held as **12 sessions with 1 or 2 sessions a day**. The students were also given access to a portal for mock tests and preparation.

The training was on topics like Aptitude, Problem solving, Mathematics, Logical Reasoning, Verbal Reasoning, Language and grammar, Group Discussions for placements, interview preparation and resume making.



Online Group Discussion

Placements 20-21



Total no. of Students : 74
No. of students registered for placements : 66
No. of Eligible Students : 58
No. of Eligible Students placed : 46
No. of non-Eligible Students : 8
No. of non-Eligible Students placed : 2
Total no. of Students placed : 48
Percentage of Eligible Students placed : 79
Unplaced Eligible Students : 12

Students Placed in Super Dream Companies



Arjun Chavan
Cimpress (12 LPA)



Sarthak Tripathi
Cimpress (12 LPA)



Tejaswini Kshirsagar
LTI LvII (8 LPA)



Vaibhav Mishra
LTI LvII (8 LPA)

Students Placed in Dream Companies



Sasha Pias
LTI Lvl (6.5 LPA)



Kattikaren Anthony
Zeus (6.5 LPA)



Meldon D'cunha
SAP (5.16 LPA)



Sidhesh Kale
LTI (5 LPA)



Nicholas Jovin
LTI (5 LPA)



Raote Nikhil
LTI (5 LPA)



Akshay Kumbhar
Deltax (5 LPA)

ACM – DBIT

From ACM Core Team,

We have organized various webinars, group discussions, quizzes, workshops, fun events, etc. for the students throughout the semester. The main objective is to foster & inculcate the value of life-long learning by promoting and developing skill sets of students in various domains to meet Industry 4.0 needs. We would like to thank our faculty coordinator - Ms. Sana Shaikh for being a great leader. Your support and belief in our team have motivated us to raise the bar of performance even higher. As a result, we were able to finish our first industry project - "The Botanist" way before the deadline, which qualified us for great incentives. Not only this, our flagship event "Teknack" achieved a great success. Because of your able guidance and continuous support, the entire team got along with one another and performed exceptionally well in achieving all our goals.

Flock Flair



FlockFlair Freelancing



The Botanist

The modern world demands innovative, driven and intelligent minds. ACM DBITs initiative "Flockflair" is one such platform where we take industrial projects. We are passionate about helping others succeed in their goals with improving effectiveness. The Flockflair team collaborates with various companies to build projects for them. These projects are offered as an internship program for college students both from DBIT and elsewhere. One such project was the app "The Botanist" developed for Eosphorus Media lead by Rahul Pudurkar along with his teammates Sanjo Sunny, Sanika Deshmukh, Yash Bitla and Devang Doshi. The Botanist was created to cater to the needs of NEET aspirants and help them in their preparation. The app is successfully published on Playstore. *As we always say "You name it, We make it".*

TEKNACK 2021

Teknack is one of the amazing battlefields provided by ACM for students of not just DBIT but also of other colleges to boost up their creative skills and pump up their technical skills by amalgamating new ideas with facts to build up games that give players an experience that would be with them forever.

Journey of Teknack 2021

November 17 2020	●	Teknack Induction Meeting
Nov 18- 25 2020	●	Idea Submission
November 28 2020	●	Mentors Meeting
November 29 2020	●	Unity Training Session
Nov 30 - Feb 28 2021	●	Game Development
February 28 2021	●	Final Day to Submit the APK of Games
March 1 - 7 2021	●	Google Play Store Details Submission
March 7 2021	●	Declaring Award Categories
March 8 - 10 2021	●	Publishing games on Google Play Store
March 9 - 14 2021	●	Games released on Google Play Store
March 23 - April 5 2021	●	Social Media Publicity of Games
April 5 - 8 2021	●	Valorant Gaming Tournament
April 7 2021	●	Housie Night
April 8 2021	●	Murder Mystery Treasure Hunt
April 24 2021	●	Teknack Final Event

More About Teknack 2021

Teknack Gaming Studio was launched in the year 2018 and the games were built using Unity Engine. To take Teknack to further heights, an initiative was taken to expand the technological domain of Teknack further. Therefore, this year a game was developed on the Unreal Engine. This marks the expansion of Teknack and has proven to be a success opening a new path for Teknack developers.

Another step towards the expansion of Teknack 2021 that was taken this year was to not only deploy the games on Google Playstore but also on Itch.io. Itch.io is a popular platform for developers to publish their games. Publishing the games on Itch increased the reach of the games which led to an increased number of downloads.



Statistics:

- 52 Total Registrations
- 45 Total Developers
- 16 Total Groups
- 16 Total Games
- 2337 Total Downloads
- 5385 Total Instagram Likes
- 2808 LinkedIn Impressions

Award Categories:

- **Best Game UI** Awarded to the game with the best overall UI, consistent interface, and an environment that is appealing to the end user.
- **Best Game Design** Awarded to the game with least glitches, smooth gameplay and animations, Fluid navigations between scenes and button clicks, proper gameplay mechanics and controls, and overall execution.
- **Best Game Concept** Awarded to the game with the best concept which is unique but at the same time should be designed and planned well with best execution.
- **People's Choice Award** : The winner is chosen by the audience. This award is decided by a 50-50 rule. 50% Downloads on Play Store. 50% Likes on Instagram.

The winners for the 3 Best Game awards were decided based on the marks awarded to each game by the jury. The jury awards the marks to each game based on 4 criteria- UI, gameplay, concept and overall appeal.

The Jury comprised of 2 judges:

Sean D'cruz- Product support engineer at Flock

Sagar Chanchal- Data centre Operations at Amazon Web Services

e-Innovex 2021

The Fifth edition of the Final year Annual Project Exhibition 'INNOVEX 2021' presented by the B.E. undergraduate students were conducted in lines of DBIT's vision of producing employable engineers who can ideate and design solutions for problems relevant to both the society and industry. This year our students and faculty faced a lot of challenges during this pandemic but nothing stopped them from executing the projects and displaying their hard work.

Due to the COVID-19 Pandemic, instead of having INNOVEX in physical space this time it was hosted virtually, on a website, innovex.dbit.in. The initiative was taken up by Mr. Tayyabali Sayyad along with a student team. All the project demonstration videos along with the project posters were exhibited. Respected Judges of each department evaluated the projects exhibited.

A total of 25 BE Computer final year projects were displayed on the website with the poster and video presentation link of each group. Projects were categorised in 4 categories under the Computer Engineering department section on the INNOVEX 2021 website as.

1. Research
2. Emerging Technologies
3. Product development
4. Sustainability

Project details were sent to industry experts (Ms. Nita Khare, Mr. Atul Gandre, Mr. Mustufa Fatak-dawala) for external evaluation on 22nd April, 2021. The evaluation was completed and received on 2nd May, 2021.

A total of 1634 unique viewers' feedback was captured for the exhibition from 30th April to 5th May 2021 under the Computer Engineering Department of the INNOVEX 2021 website platform.

Mr. Atul Gandre	Ms. Nita Khare	Mr. Mustufa Fatakawala
		
Global Head - Emerging Technologies (EmTech), Cognitive Business Operations, T&I - TCS	Global Lead - Emerging Technologies (EmTech), Cognitive Business Operations, Technology & Innovation- TCS	Data Scientist & Solution Architect (TCS)

External Panel

Winners for Innovex 2021 (Comps)

e-Innovex 2021 - Comps.

"AR Smart Navigation System"
Project Guide : Ms. Priya Kaul

Kevin Dsa Tina Sayagopu





e-Innovex 2021 - Comps.

"Student Attention Monitoring System using Python & Computer Vision"
Project Guide : Dr. Amiya K. Tripathy

Alan Tom Sasha Pais Tejaswini K.






e-Innovex 2021 - Comps.

"DAASH-Drop Attack Alert System for Home Environment"
Project Guide : Ms. Sejal Chopra

Bharathy Lourd Samara Pires Sonia Rodrigues






e-Innovex 2021 - Comps.

"Enhancing Deep Fingerprinting Attack On To Network Using Lottery Ticket Hypothesis"
Project Guide : Ms. Sana Shaikh

Sarthak Tripathi Sayali Kadam Vaibhav Mishra









e-Innovex 2021 - Comps.

Winners - "Viewers Choice"

"Nutrition Lookup System for Home-cooked Food vendors using NLP"
Project Guide : Ms. Ditty Varghese

Harshada D. Wayne F. Vaishnavi G.

Student Acheivements



Grejo Joby

- **Projects**
LOR Automation System, Placement Cell Website, ACM Website, Teknack Website, Shelter Don Bosco- Website
 - **Achievements**
1st Prize, Coding Premier League
 - **Responsibilities Handled**
Vice Chair-ACM, Web Developer- TP Cell, Editor (EXTC News)
-



Adonia Sequeira

- **Projects**
Wave surfers (Game)
 - **Achievements**
Viewers Choice Award-Teknack, Technical Writing IEEE
Peas Day Contest, UX UI challenge Colosseum DBIT
 - **Responsibilities Handled**
Treasurer DBIT, Marketing Head LITSOC, Design Team ACM
-



Briana Rajan

- **Projects**
Face mask detection
 - **Achievements**
Winner of Tug of Words Competition, Technical Paper Presentation (Colosseum), Technical Writing (IETE-DBIT)
 - **Responsibilities Handled**
Vice-Chairperson (DOMAIN Dbit)
-



Ruvin Rodrigues

- **Projects**
Zenscape (Game)
 - **Achievements**
Best Game UI- Teknack
 - **Responsibilities Handled**
Chief Editor ACM-DBIT
-



Shawn Louis

- **Projects**
Music Genre Classifier
- **Responsibilities Handled**
Head DBIT SevaTech

Parents Teacher Meeting (PTA)



Computer department, DBIT were conducted Online Parents Teachers Meeting on 10th April, 2021. All faculties of T.E. and B.E. classes have been attended all the parents on one-to-one basis. The main objective of the meeting was to create a common platform, where teachers and parents come together to discuss student's performance and devise ways to enrich their learning experience. Faculties shared students' attendance, their performance and placement statistics for the current year. Parents became aware of the institute's rules and regulations, methodologies of teaching & learning for the overall welfare of students. Parents response was very encouraging. They were supportive and extremely appreciative of the efforts taken by the Management, our respected Principal, our HOD and all the faculties of the Computer department. They acknowledged that teachers have put in their sincere best in providing continuous guidance for their children. They also appreciated the opportunities of the various activities and competitions that their ward gets to participate in, even during pandemic times. After the PTA meet, Class teachers summarized the entire discussions and parents were asked to provide feedback regarding the department's overall process and also asked to suggest points of improvement for the same.

Academic Advisory Committee (AAC)



Education can only be complete when all the members involved participate in every phase with all through the process. To make Computer Engineering such a complete process, this time the Academic Advisory Committee of the department included students along with the faculty. Mr. Tahaa Qazi (BE COMP), Ms. Cynthia Mascarenhas (BE COMP), Ms. Athira Lonnapan (TE COMP) and Mr. Hayden Cordeiro (TE COMP) were the students who were a part of this committee. To frame a plan for the upcoming academic year, a meeting with the committee was held on Saturday, 15th May 2021.

Faculty Contributions



Dr. Amiya Tripathy

- Paper published on “Designing a cryptosystem for data at rest encryption in mobile payments”, by P. Vishwakarma, A. K. Tripathy and S.Vemuru in the Journal of Applied Science and Engineering, Vo. 17, No.4, Pp. 373-382, December 2020.
- Paper published on “Cryptanalysis of near Field Communication based Authentication Protocol for Mobile Payment System” (2021) by P. Vishwakarma, A. K. Tripathy and S.Vemuru in springer journal “Wireless Personal Communications”.
- Chairman of IEEE-GeoScience and Remote Sensing Society, Bombay Chapter, Since January 2021
- Chapter Chair at Clouding Computing & IoT, ACM, Singapore.
- Technical Committee Member of 6th International Conference on Cloud Computing and Internet of Things, September, 22-24, 2021, Okinawa, Japan.
- Editor of special issue of the Journal of Future Internet (ISSN 1999-5903). “Network Virtualization and Edge/Fog Computing”.
- Editorial Board Member of Elsevier’s Journal of Information Science.
- Research Progress Committee (RPC) Member for University of Mumbai TCET Center.
- RPC Member for University of Mumbai RAIT Center, Nerul.
- Member of Advisory Committee for International Conference IC-RACT-2021.
- Member of Program Committee for International conference ICAC3-21.
- Organized Webinar on “Earth and Planetary Observation- Data Handling Techniques and Career opportunities” - (28 Aprilx 2021).
- Organized Webinar on “Earth Observation in the New Space Age” - (26th March, 2021).
- Webinars delivered on Project Ideation, Aspects of Research, Carrying n Research, How to do Effective Research.
- Sessions delivered at other Institutes:
 - Quantitative Research Method (Correlational and Quasi-experimental research), ISTE sponsored STTP on “Insights & Methodologies towards Research & Research Outcomes” held on 23rd June, 2021 at SFIT, Mumbai.
 - In search of Research, MHSS College of Engineering, Mumbai, 16th April, 2021.
 - “Problem based learning to Project based learning”, a Webinar hosted by PCCOER de livered at Pune on 7th April, 2020.
 - Remote Sensing and Artificial Intelligence in Agriculture System at Amity University, Mumbai, STTP on “Artificial Intelligence in Geospatial Technology for sustainable development” on 12th January 2021.
 - Data Science and Big Data in Smart Agriculture, at UGC Human Resource Development Center, University of Mumbai for online Refresher Course on Big Data Driven Approaches in Basic Sciences, on 21st December, 2020.
 - Python Layout Management & Data Storing in MySQL in AICTE– ISTE Sponsored Induction Programme-FDP on “Python Programming”, M.H. Saboo Siddik Polytechnic, Mumbai, on 18th December, 2020.

Faculty Contributions



Ms. Sana Shaikh

- Paper titled “Geographical Crime Rate Prediction System” submitted and accepted at IEEE INDISCON 2021.
- Paper titled “TradeZilla Using Algorithmic Trading” submitted and accepted at IEEE INDISCON 2021.
- Paper titled “Near real-time air pollution monitoring and analysis using cloud based GIS” submitted and accepted at DBIT Journal of Sceince and Engineering.
- Completed 5th module of NITTTR “Technology Enabled learning and Lifelong self learning”.
- Completed online FDP on “Insights of NBA” organized by KC COE.
- Completed Microsoft Azure Virtual Training.
- Attended webinars on “Taking Creativity Online and Creating a thought-provoking mind” organized by Adobe Essential Education.
- Attended an online session on “Some Thoughts and Approaches to Online Practical” organized by Mechanical department, DBIT.
- Organized a guest session on “Docker- A Quick Start” for Cloud Computing Lab subject.
- Appointed as a syllabus setter for Big Data Analytics subject in K J Somaya Engineering College.
- Appointed as a syllabus setter for Advance Database Management System subject of Mumbai University.
- Standardized the process of Academic Advisory Committee Meet at Institute level.
- Overall management of the departmental activities.
- Faculty coordinator of ACM student chapter.



Mr. Imran Ali

- Research proposal titled “Neural Joke Generation” guided by Mr. Imran Ali was submitted to the 15th Research Convention Avishkar 2020-21(University of Mumbai).
- Successfully completed PhD course work at Assam Don Bosco University.

Faculty Contributions



Dr. Phiroj

- Paper titled “Translation Using machine learning from English Speech to Devanagari Automated for You (T.U.E.S.D.A.Y)”, was submitted at International Journal of Computer Applications, ISSN for IJCA Digital Library is 0975- 8887.
- Attended FDP on “Financial Wellness and retirement planning”, 8th May 21 by Prasant Shah and Mahesh Ramaswamy at DBIT.
- FDPs applied for AY 2021-2022 at AICTE Training And Learning (ATAL) Academy:
 - “Innovative Techniques for Teaching Pedagogy and Impactful Research”, May 27, 2021 to May 31, 2021, National Institute of Technology, Hamirpur, Himachal Pradesh
 - “Exploring Machine Learning and Deep Learning Algorithms for Natural Language Processing (NLP) Applications”, Jun 14, 2021 to Jun 18, 2021, Vallur
 - “Explainable Artificial Intelligence and the Future”, Jun 21, 2021 to Jun 25, 2021, Indian Institute of Information Technology Kota
 - “NBA Accreditation Process”, Jun 28, 2021 to Jul 2, 2021, JNTUA Ananthapura



Ms. Dipti Jadhav

- NAYAN-DRISHTI: A Revolutionary Navigation/Visual Aid for the Visually Impaired paper accepted and presented at ICT4SD 2021, paper will be published in conference proceedings by Springer LNNS. ISSN: 2367-3370
- Paper titled “Impact of Technological Era on Mental Health of Men and Women” was presented and published at Auro Conference on gender bias on 8 March 21.
- Successfully completed PhD course work at Assam Don Bosco University.
- Teacher coordinator for the 15th Research Convention Avishkar 2020-21 (University of Mumbai).



Ms. Sejal Chopra

- Submitted and presented a paper on “A realtime position monitoring system for fall detection and analysis using human pose estimation” in ICTNE-21.
- Completed 5th module of NITTTR “Technology Enabled learning and Lifelong self learning”.
- Session on “Ease yourself with Yoga”, organized on the eve of International Yoga Day on 21st June for staff and students of DBIT and DBC.
- Attended FDP on “Insights of NBA”, organized by KC College of Engg. & Management studies & Research from 28th June’21-30th June’21

Faculty Contributions



Ms. Kalpita Wagaskar

- Paper titled “DELGAS: Deep Learning GST Analytics System” was presented and published at National Conference on Gender Bias in Technology 2021 on 8th and 9th March 2021 in association with WDC-AURO University, Don Bosco Institute of Technology, Mumbai and IEEE Bombay Section Women in Engineering.
- Paper titled “Hybrid Text and Image Compression Parallel Algorithm” was presented at ISGC 2021 on 23rd March 2021.
- Paper titled “Hybrid Quantum- Classical AI based approach to solve the Traveling Tournament Problem” was published in International Journal of Computer Sciences and Engineering (IJSE) on 30th June 21, Vol. 9, Issue.6, 83-90, June 2021.
- Ongoing Coursera course on Building Modern Python Application on AWS.
- Organized session on ‘ML trends in 2021’ by Dr. Amiya Kumar tripathy on 22nd February 2021.



Ms. Ditty Varghese

- Paper titled ‘ML- based Smart Shopping System with Recipe Recommendation’ was submitted and accepted at the 4th International Conference on Communication, Information and Computing Technology (ICCICT- 2021).
- Research proposal titled ‘ML-based Smart Shopping System with Recipe recommendation and personalized indicator” guided by Ms. Ditty Varghese was Submitted to the 15th Research Convention Avishkar 2020-21(University of Mumbai).
- Completed 3rd module of NITTTR Communication Skills, Modes & Knowledge Dissemination.
- Organized and attended seminar on Earth and planetary observations, data handling techniques and career opportunities by Dr. Sayyad Safiyoddin on 28th April 2021 as a part of Aspects of Research.
- Organized Alumni Webinar by Ms. Gladcy Nadar (Batch 2019) on “Journey as a Business Analyst” on 9th April 2021.
- Organized and coordinated projects of Computer Department for Innovex 2021.
- Technical Paper Presentation (Domain and Physics Club, Colosseum 2021)
- Been one of the judges for the technical articles and presentations during the Technical Paper Presentation competition held on March 31, 2021.

Faculty Contributions



Ms. Deepali Kayande

- Paper titled “Assessing Industrial Readiness of Students By Leveraging Soft Skill Parameters” was submitted and accepted at International Conference of Emerging Technologies 2021, conference on 23rd May, 2021.
- Paper titled “CareBot : A Mental Health ChatBot”, was submitted and accepted at International Conference of Emerging Technologies 2021, conference on 23rd May, 2021.
- Completed 3rd module of NITTTR Communication Skills, Modes & Knowledge Dissemination.



Ms. Priya Kaul

- Paper titled “AR Smart Navigation System” submitted and accepted on at International ConferenceOf Emerging Technologies 2021, conference on 23rd May, 2021.
- Completed 3rd module of NITTTR Communication Skills, Modes & Knowledge Dissemination.
- Organized and attended webinars for Colosseum 2021.
- Organized and attended workshops for Colosseum 2021.
- Webinar organized on “Developer’s guide to ERP” for T.E. Sem VI students.
- FDP attended on AICTE-ISTE approved Orientation/Refresher Programme on “Data Structure and Algo Using Python” held during 18.05.2021 to 25.05.2021 organized by Priyadarshini Institute of Engineering and Technology, Nagpur, Maharashtra.



Ms. Shainila Mulla

- Paper titled “Pneumonia Detection in X-rays Using OpenCV and Deep Learning” submitted and accepted at the 4th International Conference on Communication, Information and Computing Technology (ICCICT- 2021).
- Completed 5th module of NITTTR “Technology Enabled learning and Lifelong self learning”.

Looking back to those four years...



The 3 years that I spent in the Computer Department really transformed me in numerous ways, especially because of the opportunities provided to me with respect to academics as well as extra-curriculars. This department always focused on providing students with practical knowledge in addition to theory, and this fact is proven by the number of projects we were asked to create each semester.

No department can be successful without the contribution of the professors, and I can proudly say that the Computer department has the most supportive and encouraging teachers, who always motivated us to push ourselves to new heights. I've had the good fortune of working on some interesting and important projects during my tenure at DBIT. Under the guidance and motivation of the department, I headed an organisation called Dbitsevatech, which was created in order to provide technical help to NGOs, free of cost. As part of this organisation, my colleagues and I created an android registration app for the Young Women's Christian Association of Bombay (YWCA of Bombay). This app is now live on playstore and is actively being used by the members of YWCA. A team from our department, including myself and 5 others, took part in the Smart India Hackathon (SIH 2020) and successfully reached the Grand finale, where we presented our ideas to the judges alongside other teams from all over the country. My sincere gratitude to the department, for providing us with these amazing opportunities to showcase our abilities and expertise. The department also has the Association of Computer Machinery (ACM) student chapter under its belt. ACM holds various workshops and competitions, where the students get to learn relevant industry skills from various experts within the college as well as from the industry.

Even after the onset of the coronavirus pandemic, our college had really successful placements, with two students from the computer department securing the highest package among the students from all the four departments. The Computer department itself has had a very high percentage of students getting placed, with a significant number of students landing a dream job (above 5 LPA). This department has really talented individuals, who grab the opportunity to showcase their talents on the department day. Whether it be singers, dancers, rappers, beatboxers, actors or comedians, this department has them all. With the extensive participation of students and teachers, this day always proves to be a memorable one and those happy moments will be cherished forever. It was my privilege to be a part of this department and I hope that the achievements of the Computer department soar higher and higher with every passing day!

-Sasha Pais



Every student walks in with various expectations and a certain vision of what they would like to be after surviving the four years of college. I also had my own set of expectations that I'd hoped to achieve by the end of these four years. So, the question remains: Were my college expectations full-filled? A simple answer would be a no. However, a scrupulous answer to this question is not so simple after all, I'm afraid. I admit I did not get what I expected, rather I got something much more which surprises and makes me happy every single time I think about it. The computer department at DBIT not only helped me to become a better learner but also a better person.

It also equipped me with learning tools to improve my technical skills. Most importantly, the department provided me a platform to hone my soft-skills and little did I know how useful they were going to be.

I never thought I would be good at coding as I am presently. Just a month into my internship, I got tagged into the North America region projects of the company. Within a week after being converted full-time, I got deployed into an American project and have been involved in multiple US assignments since then. I was quite surprised at how fast my deployment happened as I honestly did not think I would get on so well. My coding skills were not so good when I first started. But, then it hit me. It was my ability to converse and express that carved this path of learning for me which then in turn gave me opportunities to improve my technical skills and made me the coder I have become today. All of this would not have been possible without the computer department giving me opportunities for sharpening my communication skills.

My advice to any undergrad student would be to merely keep exploring, try everything and to learn the skill of self-research. Being part of this department will often keep you a plethora of opportunities, some which may seem like a challenge at first. Take advantage of these while you can and mostly importantly have fun doing it.

I am grateful for all the faculty who have always been a big support and whose feedback has helped me grow immensely. These four years have been one hell of a ride which I am definitely going to miss and cherish as I move forward in life.

-Cynthia Mascarenhas



I am delighted to share my excellent experience at DBIT. The atmosphere is filled with creativity and energy. All of the faculties are enthusiastic and eager to assist. I will always be immensely grateful to my teachers for always being so kind, patient, and competent in guiding us down the proper road. DBIT's environment promotes an individual's whole growth, whether academically or extracurricularly. In my second year, DBIT offered me an on-campus internship, which subsequently proved to be a boon throughout my placements. During my final year project, the faculty's willingness to welcome fresh ideas and assist students in developing them was amazing. Because of the Training and Placement Cell's constant support

and guidance, I was able to apply to a number of reputable firms and was even hired by one of them. I will forever be grateful to DBIT for all these amazing experiences and opportunities and even more for making me the person I am today.

-Sarthak Tripathi

A Bijou note from the Co-Editor

Dear readers,

I hope you enjoyed this edition of our newsletter – a glimpse of a one of a kind roller coaster ride sponsored by a pandemic that shook the world. I would like to take this opportunity to thank everyone whose efforts have made this newsletter what it is. It gives my immense pleasure to introduce our wonderful editorial team ...

The Editorial Team



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