INSIGHT

Computer Engineering Department's Newsletter

Volume 06, Issue 02, March 2022- August 2022

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UPCOMING EVENTS

Faculty Incharge:
Asst.Prof. Manisha Fal Dessai
Student Incharge:
Mr. Nigel Mendonca

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.
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DEPARTMENTAL DETAILS

DBCE DREAM BIG – 2K22

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.

It aims at promoting awareness about innovation in industrial and professional expertise amongst students. The event began with the introduction to DBCE Dream Big, by Head of Computer Engineering Department - Dr. Gaurang Patkar. It was followed by playing a video on the ten year journey of the Institute, the achievements, initiatives and awards of the Department of Computer Engineering. The audience was also given a glimpse of DBCE Dream Big 2021.

Principal-Dr. Neena Panandikar welcomed the gathering. She highlighted the achievements of faculty and students of the Department of Computer Engineering. She emphasised "**Dont just dream big but make it happen**". This was followed by the address of Director – Rev.Fr.Kinley D'Cruz. Addressing the gathering, he said: " **If you stop dreaming then you stop growing**" and a quote by Joyce Meyer "Don't be afraid to step out, have dreams, have visions, hopes and always, always, always believe in miracles".

Student Entrepreneur Mr. Leo Barros was also felicitated on this occasion for his innovative business idea. This was followed by **MOU signing** with Kilowatt & Creative Capsule to strengthen the Industry-Academic relationships. The speakers for all the subsequent sessions were introduced by Mr. Amey Kerkar. The speakers enthralled the audience by their knowledge, experience and expertise.

The first session was conducted by Mr. Nitish Raikar, Partner and CEO, Kilowatt. The session started with the introduction of Kilowatt company by Mr. Nitish Raikar. He briefed the audience about the journey of Kilowatt, their services and customer centric approach. This was followed by a Q&A session moderated by Miss Anchita Maity. He emphasised that the key to a successful team is to resolve creative differences, as conflicts are a part of life. He further stated, "with integrity and inclusivity comes growth". He stated that present graduates can benefit a lot from learning from the internet. The session concluded with a Q&A session. He said "Letting go is the key to a good life".

The next session was by Mr. Ivo Costa, System Architect of Creative Capsule. This was purely a Q&A session moderated by Mr. Vadiraj Inamdar. Mr. Ivo Costa answered a variety of questions ranging from his experience working in online mode during the lockdown and the challenges faced during resuming work in offline mode. He focused on the fact that work must not be considered a chore but a fun activity. He stressed that one must never believe that they have mastered anything. Change is the only constant.

The next session was by Mr. Mayur Virkar, Founder & CEO, CODEMAX. The session was again a purely Q&A session moderated by Mr. Vadiraj Inamdar. Mr. Mayur Virkar shared his views on a variety of topics from technical skills to life skills. He shared that technical skills are not as important as having the right attitude. He emphasised that one must trust in team decisions, one must consider oneself as not above or below somebody but an equal. He further spoke on the importance of knowing one's basics correctly.

The fourth session was by Mr. Sajjad Ahmed on " How to handle nervousness in interviews?? ". Mr. Sajjad Ahmed started the session by giving a presentation on Nervousness, its causes and tips to manage it. This was followed by a Q&A session moderated by Mr. Aryan Kotru. Mr. Ahmed enlightened the audience about the work culture at Capgemini. He emphasised that a leader walks by his set of values. He needs to inspire and influence.

The final session was by Mr. Sachin Kale, Director-SK Group. This session was yet again a purely Q&A session moderated by Aryan Kotru. Mr. Sachin Kale answered a variety of questions on his professional journey. He emphasised that one should focus on creating assets not liabilities.

The event was coordinated by Prof. Janhavi Naik. Prof. Janhavi Naik concluded the event by delivering the vote of thanks. Ms. Nicole was the compere for the occasion.

ACM Student Chapter Inaugration

The Department of Computer Engineering Don Bosco College of Engineering has registered for ACM Students Chapter named **DBCE Goa ACM Student Chapter**. A total of 23 student members and 4 Professional members have registered. The inaugural ceremony was scheduled on 6th July, 2022 at 3.30 pm. The chief Guest for the inaugural ceremony was Ms. Maria Choudhary, Principal MTS, Oracle India and ACM Chair Goa Professional Chapter in attendance with keynote speaker, Mr.Suhas Mallya, Executive Director, EMCO Goa Private Limited. ACM Professional members Dr.Vivek Kamat, Prof.Vandana Naik, DHE and Prof.Louella Colaco were also present for the inaugural function.

The function commenced with digital lighting of lamp followed by the Principal, Dr. Neena Panandikar welcoming the gathering. Dr. Neena Panandikar highlighted the incredible progress the college has made in a span of ten years and shared the details of latest achievements in Computer Engineering Department. Rev. Fr. Kinley D'Cruz appreciated the coordination done by the ACM student members and Faculty members. Introduction to Chapter members was done and Oath was taken by all the student members. Dr. Gaurang Patkar, HOD Computer introduced the Chief Guest. Speaking on the occasion, the Chief Guest, Ms.Maria Choudhary shared importance of ACM Membership and the details of events under ACM across India. She also motivated students to participate in different contests under ACM. Dr.Vivek,Prof. Vandana and Prof.Louella also gave higlights of the activities under ACM. Inaugural function was followed by a keynote by Mr. Suhas Mallya on the topic:" Business of Technology: Importance of Solution Orientation". Mr Suhas spoke on value proposition and commercial proposition. He also stressed on solution oriented activities and innovations, making strong business case and leveraging rich ecosystem. The inaugural function concluded with a vote of thanks.

STUDENTS CORNER

Smart India Hackathon (SIH) 2022

TWO TEAMS FROM DEPARTMENT OF COMPUTER ENGINEERING, DON BOSCO COLLEGE OF ENGINEERING WERE SELECTED FOR THE GRAND FINALE OF SMART INDIA HACKATHON 2022

Smart India Hackathon (SIH) 2022 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. In SIH 2022, the students would have the opportunity to work on challenges faced within various Ministries, Departments, Industries, PSUs and NGOs to create world class solutions for some of the top organizations including industries in the world, thus helping the Private sector hire the best minds from across the nation.

Don Bosco College of Engineering (DBCE) organised an Internal Institute Level Hackathon to shortlist 15 teams to participate in the national level competition. The hackathon was open to students of all years and branches. From this 15 teams, **two teams** from Computer Department namely **Green Ribbon Army** with team members: Carson Rodrigues (Team Leader), Oysturn Vas, Rea D'Souza ,Druvi Tendulkar, Yash Karapurkar and Jaysel Silveira and **team Syntax Terminators** with members Nishil Hoogar (Team Leader), Rafath Umaimath, Nicole Fernandes , Sayed Tabib Ashraf, Nitya Pai and Shannon D'silva were selected for Grand Finale who will compete with other selected teams from across the country for the chance to win the grand prize and for their ideas to be developed at the respective ministries.**.**

Team Green Ribbon Army has developed a solution for the problem statement "**Mental health and well-being surveillance, assessment and tracking solution among children**" floated by the Department of School Education & Literacy (DoSEL), Ministry of Education and Team Syntax Terminators have developed a solution for "**System for an efficient and transparent process of buyer-seller interactions, provision for creating niche product offerings for SHG groups for all areas**" floated by Ministry of Rural development.

STUDENT FAREWELL - BATCH 2022

The "FAREWELL" for BE computer students batch 2022 was scheduled on Wednesday 06th July 2022. The function began at 10 am when the students from BE COMPUTER class walked in their best attire. The theme for farewell was Masquerade – They were each given a mask to wear. Mr Carson and Mr. Joshua both from TE COMPUTER were the hosts of the day and started the program with their lovely welcome speech which was then followed by giving the flowers to the dignitaries Director Rev. Fr. Kinley D'Cruz, Principal – Dr. Neena Panandikar and Computer HOD – Dr. Gaurang Patkar. Fr. Kinley addressed the students with his motivating speech. This was followed by the captivating speech given by Principal Dr. Neena Panandikar and HOD, Dr. Gaurang Patkar. The TE team had organized games and spot prizes very nicely to enlighten the mood of all BE Students.

A nice and beautiful memory lane video was shown to them, which brought all the mixed emotions on their face. Some students like Krupashri, Nigel, Aryan and then the class representative Leon came forward to share their wonderful experiences. The faculties couldn't stop themselves from sharing their thought and memories with them. Prof. Amey Tilve, Prof. Christina, Dr. Vivek shared their wishes. This was followed with a beautiful dance performance by Rohan Raiker and cake cutting ceremony. Mementos were given to each and every BE Student as a token of love.
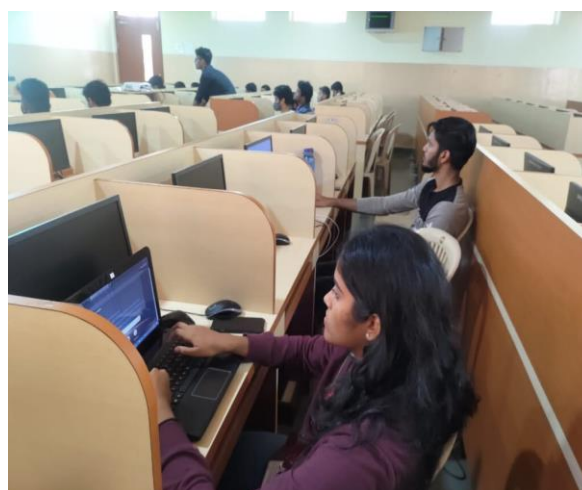

WORKSHOPS/ SEMINARS/ INTERNSHIP TRAININGS

1. Workshop on "Building Chatbot using React Native"

C-Codes Student Association along with the Computer Department organized a workshop on **"Building Chatbot using React Native"** . The workshop was conducted on June 24, 2022, for second & third year computer engineering students. The resource person for the workshop was Carson Rodrigues, TE-Comp student. The coordinator for the workshop was Prof. Merwyn D'Souza.

The workshop started with the introduction to React Native. React Native is an open-source UI software framework created by Meta Platforms, Inc. It is used to develop applications for Android, Android TV, iOS, macOS, tvOS, Web, Windows and UWP by enabling developers to use the React framework along with native platform capabilities. The process of Chatbot building started by setting up the environment for React Native in CMD, following to that installing the required packages in VSCode. Post installation, the code was compiled & the android version app was demonstrated on the mobile. The code was linked to Google's fire base along with dialogue flow essentials to process the query fired in the app. The session concluded with sharing of the repositories and the required contents for building on the project.

2.   Technical Talk on "MEAN STACK AND LOW CODE"

C-CODES in association with the Department of Computer Engineering of Don Bosco College of Engineering (DBCE) organized a technical talk on "**MEAN STACK AND LOW CODE**". The speaker for the session was **Mr. Joshua Salema**, alumnus of DBCE 2016 Batch, who currently works as a **system analyst** at **ZiMetrics Technologies Pvt Ltd**. This talk was held for first year computer engineering students on March 30, 2022. The faculty coordinators for the event were Dr. Gaurang Patkar and Prof. Siya Naik.

The Speaker dived deep into MEAN stack and explained what MEAN is, he explained, M stand for Mongo db, E for Express, A for Angular and N for Node js. With Angular being

frontend, Mango db being the database and Express being the backend framework and Node js the backend runtime environment. He also spoke about Low-code which is a software development approach that requires little to no coding in order to build applications and processes. He gave examples of OutSystems and Salesforce which are Low-code development tools..At the end he spoke about the latest technologies which are being used in the industry.

The session ended with question and answer round. The vote of thanks was delivered by Dr. Gaurang Patkar, Head of Department of Computer Engineering.

3. Seminar on "INNOVATION and 3D PRINTING TECHNOLOGY"

The Department of Computer Engineering, Don Bosco College of Engineering (DBCE), in collaboration with the C-CODES (Council of Computer Department Engg. Students) and the Goa State Innovation Council, organised a seminar on innovation and 3D printing technology on Saturday, March 26, 2022 for the B.E computer students.

The speaker was Mr Siddhant Panjikar, the Head of the rapid prototyping lab at DBCE, Fatorda. The seminar began with a presentation, which was followed by a film that described the Goa State Innovation Council's objective and numerous initiatives. Mr Siddhant explained the procedure to avail the funding for the projects and other services that are offered by the council. By using real-life examples, he emphasised the importance of patent filing. The advantages of registering one's idea and business were also discussed. The students were given a tour of the prototype lab, where they saw numerous machines including: 3D printers, laser cutters, drones, power tools etc. A basic description of how these gadgets work was provided. Students learned about the most up-to-date 3D printing technologies. The workings of the 3D printing process, the many types of raw materials needed, and other requirements were all described in detail. Various applications of 3D printing were also discussed. The session came to a close with a brief practical demonstration of how to use a 3D printer and the Cura software by providing the design and other commands. Mr. Siddhant said *"3D printing is already shaking our age-old notions of what can and can't be made."* The faculty coordinators were Dr. Gaurang Patkar, Asst. Prof. Merwyn D'Souza and Asst. Prof. Norman Dias. The student coordinator was Mr. Aryan Prabhu Sawkar.

STUDENTS PARTICIPATION IN WORKSHOPS/SEMINARS/ TECHNICAL EVENTS & TECHNICAL COMPETITIONS

Sr. No.	Seminar/Workshop/ Technical Events/Conferences/Training programmers etc.	Date (s)	Organised by	Number of Students	Level of Students	Award/Prize won	Faculty Coordinator	Name (s) of Students
1	Smart India Hackathon 2022	March 24, 2022	MoE's Innovation cell, AICTE & Persistent Systems Limited.	68	SE COMP	Participation	Dr. Gaurang Patkar, Dr. Vivek Jog, Dr. Amrita Naik	Entire Class
2	Smart India Hackathon 2022	March 24, 2022	MoE's Innovation cell, AICTE & Persistent Systems Limited.	6	TE COMP	Finalist	Dr. Vivek Jog, Amey Kerkar	Oysturn Vas, Yash Karapurkar, Rea D'Souza, Druvi Tendulkar, Jaysel Silveira
3	Techgium 2022	May 31, 2022	L&T Private Limited	1	TE COMP	Participation	Dr. Vivek Jog	Carson Rodrigues
4	TECHFLUENCE 2022 (Code Ground & QUIZ)	9th & 10th June 2022	Goa College of Engineering	9	SE COMP	Participated	Amey Tilve	VadirajInamdar Sanketh Shenoy, Shubham

								Tendulkar, Pratham Shah, Manohar Gaunecar
5	TECHFLUENCE 2022 (UI DESIGN)	9th & 10th June 2022	Goa College of Engineering	2	SE COMP	Participated	Amey Tilve	Gauravi kamat, SHANNON D'SILVA
6	TECHFLUENCE 2022 (QUIZ)	9th & 10th June 2022	Goa College of Engineering	3	SE COMP	Participated	Amey Tilve	Chinmay Joshi, Vibhav vishwajit Desai, Syed Tabib Ashraf, Aryan Kotru,
7	TECHFLUENCE 2022, (Quiz Competition)	9th & 10th June 2022	Goa College of Engineering	2	SE COMP	1st Place	Amey Tilve	Varad Kelkar, Manohar Gaunecar
8	Paper Presentation	5th June 2022	Dhyanprakash mandal's college and research centre (DMC), AICTE	1	SE COMP	Participation	-	Sanjana Vernekar
9	Nation Wide quiz contest of Official Statistics	03rd July 2022	National Statistical Office, Ministry of Statistics and Programme Implementation (MoSPI), Govt of India	2	SE COMP	Participation	Amey Tilve	Varad Kelkar, Manohar Gaunecar

FACULTY INITIATIVES

FACULTY FIELD TRIP at "CODEMAX IT Solutions Private Limited"

The Department of Computer Engineering arranged field trip for the faculty members at **CODEMAX IT Solutions Pvt. Ltd, Margao, Goa** on March 11th, 2022. It was a great interaction with the Founder & CEO, Mr. Mayur Virkar; Director & CTO, Ms. Nestinca Rebello, HR, Ms.Ishrat Shaikh and other employees of the organization.

Following were the topics of discussion:

- Existing curriculum of Goa University.
- Bridging the gap between Industry and Institute.
- Short term training courses to be offered.
- Internship programs and Placements.
- MoU

The meeting was fruitful and ended on a positive note with collaboration in the future. The Field Co-ordinator was Mrs Manisha Fal Dessai.

PAPER/ JOURNAL PUBLICATIONS and PAPER PRESENTATION

Sr No	Author Name	Title of Paper	Details (journal name, volume, series, year)	National/International
1.	Amrita Naik	Prediction of Malignant Lung Nodules in CT Scan Images Using CNN and Feature Selection Algorithms	International Conference on Applied Artificial Intelligence and Computing (ICAAIC), IEEE, 09-11 May 2022	International Conference

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED and CONDUCTED

Sr. No.	Seminar/Workshop/ Short Term Courses/Conferences/ Training Programs etc.	Date	Duration	Organization	No. of Faculty Deputed/ Permitted	Name of the Faculty Participated
1	Machine learning (AICTE-ISTE)	22/2/2022 – 28/2/2022	One week	RIT, Goa	3	Manisha Fal Dessai, Merwyn D'Souza, Amey tilve, Janhavi Naik, Amrita Naik
2	Deep into Python	19/02/2022 and 26/02/2022	2 days	ACM Goa Chapter, DBCE ACM India iSIGCSE	2	Amey Tilve, Janhavi Naik Manisha Fal Dessai Merwyn D'Souza

3	NDLI e-resources Awareness Session	08/01/2022	1 day	NDLI Club of DBCE	2	Amey Tilve, Janhavi Naik
4	Global Event: The Journey of an Entrepreneur	01/07/2022	1 day	NDLI Club of DBCE	2	Amey Tilve, Janhavi Naik
5	Design Thinking	07/07/2022	1 day	NDLI Club of DBCE	2	Amey Tilve, Janhavi Naik
6	Business of Technology: Importance of Solution oriented	06/07/2022	1 Day	ACM Goa Professional Chapter	12	All Faculties
7	Numerical Linear algebra in applications to Data Sciences (AICTE- QIP Short Term Course)	7/3/2022 – 12/3/2022	One week	IIIT, Design and Manufacturing , Chennai	1	Amrita Naik

UPCOMING EVENTS

- ➢ Field Trips

- ➢ Webinar & Workshops for SE, TE and BE Students