



INSIGHT

Computer Engineering Department's Newsletter

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Faculty Incharge:

Asst. Prof. Manisha Fal Dessai

Student Incharge:

Mr. Samuel Mesquita

VISION

To create an environment that promotes research, creativity and learning, internationally acknowledged in the field of Computer Engineering.

MISSION

To encourage students to become upright and responsible citizens with the ability to face challenges. We aim to create a teaching environment that focuses cutting edge research and innovative technology in Computer Science and Engineering.

Panel Discussion on “CAREER INSIGHTS”

C-codes student association along with ACM Goa student's chapter of computer engineering department, DBCE, Fatorda organized a Panel Discussion on career insights for SE, TE and BE students. The talk was conducted on 27 August 2022, for second and third year computer engineering students.

The resource people of the workshop were from Company, Open Destination limited (ODL) and they were Mr. Milind Anvekar- Senior VP - Operations Customer experience-SaaS, Ms. Rupal Karande- VP

Projects Architects and Mobile development. Mr. Rupesh Kargaonkar – team lead development (roles), training, Mr. Leon Mesquita- Head of professional Product management, QA automation and Ms Amrapalli Nayak.

The session commenced by welcoming the dignitaries of the day with the bouquet of flowers. The speakers shared their journey of how they turned from an engineering student to now leading the company. Mr. Milind Anvekar started by saying that future of IT industry is bright. He mentioned that there will be 20 times the present demand for digital stalls by 2024. Ms. Rupal shared with us her journey of being a strong independent woman and also told us about the various positions that a CS student can get in the company. Mr. Leon mentioned that he was very keen in computer science from the beginning and chose to be an engineer inspite of coming from a family of doctors. He said that even if one is not good in programming there are different roles that a person can play in a tech company like being business analyst etc. Mr. Shakti shared with us his experience in software testing and game testing. Mr. Rupesh said that he was always interested in programming problem solving and he also trains people so that they ease out in an organization. Ms. Amrapali shared with us the story of how she convinced her parents to drop biology inspite of coming from the family of doctors and how she was always interested in computers.



Ms. Rupal guided us on various positions being offered to the engineering student at the company, such as being project manager, team lead, technical architect, assistant development manager. Finally at the end of the session speakers answered all the questions asked by the students. Mr. Milind ended the session by saying the quote **“Do the job you like to do or like the job you do”**. The session concluded with a vote of thanks given by Prof. Merwyn D’souza. The event was very informative and a great success.

STUDENTS CORNER

C-CODES Installation with “INSPIRUS 2K22 - Make it Happen” National level Intercollegiate Event

Don Bosco College of Engineering, in association with the C-Codes Council nurtured by the Computer Department of Don Bosco College of Engineering, organized the 6th Edition of INSPIRUS 2K22-MAKE IT HAPPEN. The event was held on 3rd and 4th November 2022 in the campus of Don Bosco College of Engineering.



The event comprised of both technical and non-technical events with massive participation from students of various technical and non-technical colleges and higher secondaries across the country. There were a wide range of events organized namely: Inspirathon (hackathon), Code Wars, CodePlay, ExQuizite, Jigsaw Coding, Retrieval Sages, Mind Games, Framed, Incarnate, Reel it, Feel It!, Drop the Beat and Leisure Lounge were organized. Additionally, a workshop, MasterClass which is an interactive session between resource persons and faculty on interesting topics related to teaching and computer technology which comprised a couple of educational and resourceful lectures was also organized for faculties and students. Students participated in the above events on a massive scale marking 506 total participations and 389 offline participations.

The inaugural ceremony commenced with the lighting of lamp by a group of dignitaries where the Chief guest for the inaugural function was Dr. Ajit Parulekar, Director of GIM. Goa. The other dignitaries included, Director Rev. Fr. Kinley D’Cruz, Principal Dr. Neena S. P. Panandikar, Head of the Computer department Dr. Gaurang Patkar, Aryan Kotru, Chairperson of C-Codes as well as the faculty members of the Computer Engineering Department of Don Bosco College of Engineering, Fatorda.

The C-Codes council(2022-23) took an oath of office, promising to abide by their duties to their fullest of their abilities. The distinction holders of batch 2018-2022 were felicitated with a medal and a certificate. In the end, Prof. Merwyn D’Souza offered a vote of thanks to all. He thanked all the invited guests and participants for gracing the occasion by their solemn presence.



The Valedictory event was held to mark the end of INSPIRUS 2K22, the chief guest for the event was Mr. Vivek Gujral, Founder and CTO of OneShield Software. The event began with the display of marvelous content created by participants of Framed-The photography competition and ‘Reel It, Feel It!’-The reel making competition which was followed by the speech given by Mr. Vivek Gujral.

Mr. Vivek Gujral enlightened the students, with regards to pursuing one’s goals with passion and always learning about various subjects from various fields, implementation of said learned concepts with technology and pushing forwards and providing solutions to problems in various fields with the help of acquired knowledge. Mr. Gujral said **“The only constant in the technology industry is change.”**

Further the convenor report for INSPIRUS 2K22 was given by the HOD of the Computer Department, Dr. Gaurang Patkar which was followed by the prize distribution ceremony which marked the end of INSPIRUS 2K22.

INSPIRATHON 2K22

The main highlight of Inspirus 2K22 was a 24-hour non-stop Full Stack Hackathon **“INSPIRATHON”**. It was held for the 4th time in Goa. The event was supported by Spintly.

The hackathon began on November 3rd, 2022 at 12 pm and ran continuously for 24 hours until 12 pm on November 4th, 2022. The organizing team received a huge response for the registrations, from participants all over the state of Goa. A total of 14 teams registered for the hackathon. There were a total of 21 problem statements to choose from. The problem statements were released one day prior to the event and each team had to choose a unique problem statement. The participants were from various engineering colleges and polytechnic colleges.

The hackathon served as a great platform for the organizers as well as the participants to network and cultivate connections. The judges for the 4th edition of Inspirathon were Mr. Saurabh Kanekar from Persistent Systems and Mr. Malcolm Dsouza; Co-founder and CTO from Spintly.



The participating teams were told to upload their work on Github for the judges to evaluate. The teams then had to present their solutions to the judges through presentations and demos whereby they were judged on complexity of the solution, completion, innovation, presentation, execution and the solution itself.

After the judging round the participants gave their feedback on attending the 24-hour hackathon. The teams commended the organising team for organising the hackathon very well and they also expressed their desire to attend the hackathon for the next edition of Inspirus.

The 1st place was bagged by team God Speed from Goa College of Engineering, members were Amisha Naik, Georgey VB and Saif Farooqi. Team A3 secured the 2nd place from Goa College of Engineering; members were Atharva Parkhe, Amit Balekundar and Azvern Dias. 3rd place went to team Code_Speaks_For_Itself members Zubin Shah, Rahul Jalan and Niranjana Hebli.

The Faculty Coordinators for the event were Prof. Merwyn D'Souza, Prof. Amey Tilve and Prof. Mithil Parab. The student coordinators were Pratham Shah, Sanketh Shenoy, Manohar Gaunekar, Abhishek Kudalkar, Idwal Dias, Jason Rodrigues, Rudra Kande, Shannon D'silva, Rutvik Vaze, Ved Kerkar, Glory D'Cruz, Kezia Fernandes, Ruchi Bokade, Khizer Ahmed Khan, Rhys Rodrigues. Both the faculty and student coordinators worked hand in hand tirelessly to make this event a grand success.

TECH MANIA 2K22

The Department of Computer Engineering- Don Bosco College of Engineering organized Tech Mania 2k22- an annual project competition for the final year & third year projects on August 27, 2022. The Tech fest was powered by Xerviz Wlobal.

The formal function began with the arrival of the Chief Guest – Mr. Milind Anvekar, Senior Vice President, Open Destinations and also the Chairman at Goa Technology Association, Guest of Honor - Mr. Rohan Warty, Managing Director, Xerviz Wlobal, Secretary at Goa Technology Association, Rev. Fr. Kinley D'cruz- Director, and Dr. Gaurang Patkar- Head of Department of Computer Engineering This was followed by the welcome address by Dr Gaurang Patkar & Rev.Fr.Kinley D'Cruz.

The Department's annual project book "**TechSeed 2k22**" was released at the hands of the Chief Guest and the other dignitaries during the function.



After the launch of "TechSeed 2k22", Mr. Milind Anvekar addressed the gathering & focused on the importance of building a strong team & solving a true problem which would help the society. He also shared his personal experience as a student while working on his academic project.

The best three final year projects and best three third year mini projects were awarded with a trophy and certificate at the hands of the dignitaries. The competition was judged by eminent technocrats namely Mr. Rohan Warty, Mr. Sohumi Prabhudesai, Senior Team Lead at Persistent Systems, and Mrs. Suvarna Surlekar, Director at Fun Minds Learning Ltd.

Prof. Mithil Parab announced the winners & at the end Prof. Amey Kerkar, Tech Mania Coordinator proposed the vote of thanks. This event was compered by Mr. Vadiraj Inamdar & Mr. Shubham Tendulkar, students from third year computer department.



WORKSHOPS/ SEMINARS/ IN-HOUSE TRAININGS

Seminar on “**Prototyping and 3D Printing Technology**” by Mr Rajdutt Kenkre



The Department of Computer Engineering – Don Bosco College of Engineering (DBCE), Fatorda in collaboration with the C-CODES (Council of Computer Department Engg. Students) and the Goa State Innovation Council, organised a seminar on Prototyping and 3D printing technology on September 10th, 2022 for the S.E and T.E computer students. The speakers were Mr. Rajdutt Kenkre (DBCE Alumni – 2018 batch) and Mr. Joel (both DBCE Alumni – 2021 batch), from the Rapid prototyping lab at DBCE, Fatorda. The seminar began with a presentation that described the Goa State Innovation Council’s objective and numerous initiatives. Mr. Rajdutt explained the procedure to avail the funding for the projects and other services that are offered by the council. 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. Rajdutt said “3D printing potential is unlimited, and it is the future!”



The students were given a tour of the prototype lab by Mr. Joel, 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. They were also shown various models, puzzles, articles with intricate design that were 3D printed. The session ended with an interactive question and answer session. Some of the questions that were asked were “What’s the cost of a 3D printer? “, “Is resin printing same as 3D printing”. The faculty coordinator was Asst. Prof. Merwyn D’Souza. The student coordinator was Mr. Nikhil Rao.

EXPERT TALKS

Talk on “Agile Software Development” by Mrs Amita Bhusavalkar



C-codes Student Association (Department of Computer Engineering, DBCE) along with TPO, DBCE, Fatorda organized a Student Development Program (online mode through google meet) on “**Agile Software Development**” on 13th October 2022 at 3pm. The talk was conducted for third year computer engineering students. Total 40 students attended the talk. The resource person was Mrs Amita Bhusavalkar, Agile Ninja coach, TCS having over 20 years’ experience. The coordinators for the event were Prof. Merwyn D’Souza and Prof. Avila Naik(TPO).

The expert spoke on various topics related to agile programming like:

- Traditional Programming vs. Agile Programming
- The four core values of Agile software development as stated by the Agile Manifesto are:
 - Individuals and interactions over processes and tools;
 - Working software over comprehensive documentation;
 - Customer collaboration over contract negotiation; and.
 - Responding to change over following a plan.

- The advantages of agile programming
- the use cases and real life examples of agile programming.

The Expert Amita said that “traditional programming approach can also work concurrently with agile programming”. The session concluded with a vote of thanks given by Prof. Merwyn D’souza. The event was very informative and interactive session and a great success.

FIELD VISITS

For T.E. Computer Students



Don Bosco College of Engineering in association with C-Codes Computer Department students association organized a field visit on 7th October, 2022 to OPTEL Visison Pvt Ltd & Infinity3D, CIBA in Verna Industrial Estate for TE Computer students. Around 65 students were accompanied by the following professors: - Dr. Vivek Jog, Prof. Norman Dias & Prof. Sweta Morajkar.



The students first visited OPTEL Visison Pvt Ltd, wherein they were welcomed by the HR manager Disha Juwarkar & one of the R&D employee Nutan Kamat who a brief introduction about the company origin, vision and mission of the OPTEL Group, saying that it is a multinational, leading global provider of traceability systems which uses its innovative technologies to create a better world. Following to the introductory session, students were divided into batches & were shown warehouses, sub assembly line, packing of the products & QR printing on the products by the employees. Optel Vision indeed provides true end-to-end traceability solutions that allows one to verify and track the history, location and even the state or status of individual products, regardless of where they are in the supply chain.

INFINYT 3D at CIBA, Verna



Optel Vision, Verna



In the afternoon session, students visited Infinity3D, CIBA Verna wherein they were explained about different types of 3D printing techniques. Practical applications of a 3D printer were told. Also laser-cut products were shown. Few of the ongoing 3D printing were shown to the students. The staffs at both companies were very welcoming and supportive. The field visit was a very informative & exhilarating experience for all the students. Refreshments were provided to the students. The coordinator for the field trip was Prof. Manisha Fal Dessai.

For S.E. Computer Students

The Students of S.E. Computer visited, Funkskool India Ltd. and Smartlink Holdings Ltd. as part of a field trip visit organized by C-Codes Computer students association. Around 65 students were present. The following Computer Engineering Dept. faculty accompanied the students: Prof. Amey Tilve, Prof. Ankitkumar tiwari and Prof. Janhavi Naik.

The students got a keen opportunity to visit professional industrial places. Forenoon, they visited Funkskool India Ltd, at Corlim where first students were taken to the godown where the raw material is loaded in from. They were told about how the raw material that arrives, undergoes a random quality check, wherein for a set of 1000 goods, about 125 samples are randomly selected and send through initial quality check. Next the tour continued to the area where the plastic was moulded into toys. Here large injection blow moulding machines are operated by workers to create specific toy parts. Each machine can handle a different weight of moulds with the largest going upto 650 tons. The moulds are placed into the machine via two overhead cranes. There was also a place where moulds are repaired in this area. Following this,



We were taken to several assembly lines where toys were assembled by workers (mainly female). These include the manual and semi-manual spray painting assembly line, the tempo painting assembly line, the PCB assembly line for electronic toys components which was a regulated region. There was also an assembly line consisting of ultrasonic plastic welding. We were also shown the automated gamebox machine which essentially automates the process of creating boxes. This is very useful during months where there are significantly more orders of a high magnitude as it increases efficiency of a process. However for orders of lower magnitude it is inefficient. We were also shown the designer room where new toys are designed. They also showed clay making area which was highly regulated to prevent any bacteria from entering the clay. Overall the company tour was highly informative.



Post Lunch, the faculty along with the students, arrived at the one of the sub-plants of Smartlink Holdings Ltd. called Synegra for a visit in their facility. One of the Senior Executive working at the Synegra facility, enlightened us by providing a step-by-step process on how various parts such as resistors, capacitors and integrated circuits are mounted on a Printed Circuit Board (PCB) by applying solder paste below the surface of the PCB using a Surface Mounted Technology line and later soldered by using the Wave Soldering technology. The executive also demonstrated the working of the Wave Soldering technology after which the parts go for a thorough inspection for any faults in the product. After this process, we also observed how the employees test the functioning of the required product to be dispatched and once again undergoing thorough

inspection of the product. Several questions were raised regarding caution signs of Electrostatic Discharge (ESD) inside the facility. The executive thus explained the precautions taken to eliminate ESD from the employees for smooth functioning in the making of the product. The educational field trip was concluded with a group photograph of the students of SE COMP along with the faculty. Refreshments were provided to the students at the beginning of the journey. The coordinator for the field trip was Prof. Manisha Fal Dessai.



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	Pitch Tank	27/10/22	PCCE (Techyon)	1	TE	1st		Leo Barros
2	DataHack	29/10/22	PCCE (Techyon)	2	TE	2nd		Leo Barros, Rhys Rodrigues
3	Goa Police Hackathon	10/09/22 - 12/09/22	Goa State Police	2	TE	3rd	Prof. Amey Tilve, Prof. Janhavi Naik	Ivan Azim, Pratham Shah
4	ACM-W Hack 2022, A national level hackathon for women	14/10/22 - 15/10/22	ACM-W India, ACM-Goa and PCCE ACM student chapter	3	TE	-	Prof. Sweta Morajkar	Sanjana Vernekar, Skyla Barreto, Gauravi Kamat

5	Smart India Hackathon	24/8/2022 - 26/8/2022	MHRD	6	BE	Dr. Vivek Jog, Prof. Amey Kerkar	Carson, Yash, Rea, Oysturn, Druvi, Jaysel
6	Smart India Hackathon -2022	24/8/2022 - 26/8/2022	MHRD	6	TE	Prof. Sweta Morajkar, Prof. Ankit Tiwari	Nishil Hoogar, Tabib Syed, Shannon D'Silva, Nitya Pai, Rafath Umaimath, Nicole Fernandes

STUDENTS PARTICIPATION IN CULTURAL & SPORTS ACTIVITIES

STUDENTS PARTICIPATION IN CULTURAL ACTIVITIES							
Sr.No.	Type & Level of Cultural Activities (College/University/State/National)	Date(s)	Organized by	Number of Students	Award/Prize won	Faculty Coordinator	Name (s) of Students
1	Sankriti 2022 (College)	21/10/22	DBCE	2	1st		Aryan Kotru, Pratham Shah

STUDENTS PARTICIPATION IN SPORTS ACTIVITIES						
Sr.No.	Type & Level of Sports Activity	Date (s)	Organized by	Number of Students	Award/Prize won	Name(s) of Students
1	Taekwondo - Inter collegiate championship	October 14	Goa University	1	Gold	Carson Rodrigues
2	Badminton- Inter collegiate	September 15	Goa University	1	-	Ritika Ghanti
3	Table Tennis	October 25	GMC	1	Silver	Ritika Ghanti
4	Chess - State level Inter collegiate	August 17-18	Goa University	2	Winners	Navin Morajkar, Shvesh Naik
5	Table Tennis	October 25	GMC	1	Silver	Sanketh Shenoy
6	cross country run 10km	10-9-22	Goa University	1	-	Shaunak Narvekar

7	Football - inter collegiate championship	October 12 - 22	Goa University	1	-	Samuel Miranda
8	Football - Reliance tournament	November 7 - 22	Reliance foundation	1	-	Samuel Miranda
9	Badminton - Inter collegiate	September 14	Goa University	1	-	Vedant Gad
10	Basketball 3x3-InterClass	24/11/2022	DBCE	1	-	steven mascarenhas
11	powerlifting-state level	September 15	Goa University	1	-	sahil Desai
12	Basketball 3x3-InterClass	24/11/2022	DBCE	1	-	Germano D'Costa

FACULTY INITIATIVES

PAPER/ JOURNAL PUBLICATIONS and PAPER PRESENTATION

Faculty Publications				
Sr . No.	Author Name	Title of Paper	Details (journal name, volume, series, year)	National/International
1	Amey K. Shet Tilve	IoT based platform for smart automobile systems	International conference on Information and Communication Technology for Competitive Strategies (ICTCS 2022), Springer Proceedings, Dec 2022	International Conference
2	Manisha Fal Dessai	Bone health Prediction using Machine Learning Approach	International Conference on Augmented Intelligence and Sustainable Systems(ICAISS 2022),IEEE XPLORE,ISBN 978-1-6654-8962-1	International Conference

WORKSHOPS/SEMINARS/EXPERT TALKS ATTENDED

SUMMARY OF PARTICIPATION IN FACULTY DEVELOPMENT ACTIVITIES

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	Anova in Data Analytics	Nov 12, 2022	1 day	NDLI CLUB	2	Janhavi Naik, Manisha Fal Dessai
2	Machine Learning and Predictive Analysis using Python	11 Aug 2022 to 15 Aug 2022	1 week	NITTTR, Chandigarh	2	Amev Shet Tilve, Janhavi Naik
3	Manohar Parrikar Vidhyan Mahotsav	13 December 2022	1 day	Department of Science & technology, Govt of Goa	13	All Faculties
4	The World Becomes What You Teach	4 November 2022	1 day	Don Bosco College of Engineering	13	All Faculties
5	Designing Scalable IoT Architecture	4 November 2022	1 day	Don Bosco College of Engineering	13	All Faculties

UPCOMING EVENTS

- DREAMBIG Event
- Workshop on “Ease of Programming with Python” for S.E., B.E. & T.E. Computer Students.
- Expert Talk for S.E., B.E. & T.E. Computer Students.
- Industry Visit to Bangalore for B.E. Students..