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PROF. DR. SACHIN BOJEWAR

HEAD OF DEPARTMENT, COMPUTER ENGINEERING

Hello Everyone,

Computer Engineering is a discipline that integrates several fields like computer hardware & software, electronics and electrical, communication and information technology etc. Computers have revolutionized life of everyone in India and during last couple of decades Computer Engineering has become biggest job provider and source of largest number successful start ups. It has totally changed the computing field, communication system, data system and management processes. It has ushered in new digital era in lifetime of a comma man.

To promote highly Ethical and Innovative Computer Professionals through excellence in teaching, training and research the department faculties always strives to give the best of the best they can deliver.

Graduates from the department in the least level's secure excellent placements. Many our Alumni have made their mark in different careers. Many of them occupy top positions in both academia and industry all over the world, and quite several them have founded successful enterprises.



“The secret of change is to focus all your energy, not on fighting the old, but on building the new.”
-Socrates

WEBINAR ON Drafting Research papers: Tips and Tricks by CSI-VIT

CSIVIT | VIT | Vidyalankar Institute of Technology | Accredited A+ by NAAC

DRAFTING RESEARCH PAPERS: TIPS AND TRICKS

8TH SEPTEMBER 2021

5PM ONWARDS

YOUTUBE

SRISHTI AGRAWAL
VIT ALUMNUS

REGISTER HERE: [QR CODE]

CONTACT: +91 98204 60364

DATE: September 8th, 2021.
SPEAKER: Srishti Agrawal

The event began with Ms. Agrawal addressing the concept of “Writing a Research Paper” and what would be the ideal approach to write and execute the process of drafting a research paper. She further explained the various domains which come under the “Research paper” depending on the purpose it serves and the need. She proceeded to the four important factors which one should keep into consideration when initiating the process of writing a research paper which namely include: Coherence, Relevance, Organization and Clarity abbreviated as CROC. Subsequently, the next component namely “Methods” was addressed which constitutes a total of 10% of the total content of the paper. Citing the impact of the “Discussion” section in a research paper, the participants were instructed to keep in picture, the conciseness and clarity of vision while stating the concluding statements. After, conducting a revision quiz to ensure everyone was on the same page, Ms. Agrawal indulged us in understanding the “Composition of a research paper”. To have a more hands-on approach, Ms. Agrawal shared some research papers and highlighted all the concepts which she had stated in the session.

Link: <https://youtu.be/kPH8Yxig4Eo>

Department Staff

PROF. Amit K. Nerurkar
ASSISTANT PROFESSOR



EDUCATION QUALIFICATION:
PURSUING PhD

WORKING EXPERIENCE:
12 YEARS

AREA OF SPECIALIZATION:
NETWORKING,
IOT
EMBEDDED SYSTEMS,
DISTRIBUTED SYSTEMS
ARTIFICIAL INTELLIGENCE

PROF. Swapnil Sonawane
ASSISTANT PROFESSOR



EDUCATION QUALIFICATION:
PURSUING PhD

WORKING EXPERIENCE:
13 YEARS

AREA OF SPECIALIZATION:
BLOCKCHAIN
DATA STRUCTURES
ALGORITHMS
JAVA PROGRAMMING
PYTHON PROGRAMMING

“If you want to walk fast, walk alone. But if you want to walk far, walk together
-Ratan Tata”

Student's Speak

Mohit Chandorkar

I feel honored to express my gratitude towards the Vidyalankar Institute of Technology. The 3 years were a rollercoaster ride filled with assignments, exam pressure, viva's and practical exam, which was made easy by the faculty members of the Computer Engineering Department. Apart from studies, the campus was filled with exciting events by the committees like Students Council, CSI-VIT and TEDxVIT. I would like to thank Prof. Amit Nerurkar and Prof. Sachin Deshpande for always encouraging us and giving us a chance to conduct various activities under the Students Council and CSI-VIT. The professors have worked really very hard to give us a classroom-like experience during the virtual lectures. The practical sessions were meticulously planned and demonstrated with the help of presentations and live implementations. The department also arranged a series of guests lectures by industry professionals and alumni. Subjects like data structure and algorithms, advanced algorithms, cryptography and system security, system programming and compiler construction which were daunting at first, were made easy by the faculty. Talking about amenities, VIT has the finest classrooms, labs, playground, clean washrooms, seminar hall and gaming area. Again, I would like to thank all the professors and staff associated with VIT for these amazing 3 years.



Departmental Updates

- Prof. Amit K. Nerurkar took admission for his PhD in Technology
- Prof. Swapnil Sonawane took admission for his PhD in Technology
- Department conducted proctored platform testing for online exam conduction developed by Cerebranium (A German Strat-up) in September 2021.
- Prof. Amit K. Nerurkar published paper Title “Smart Eyeglasses for Visually Impaired Individuals” in International Journal of Engineering Research and Applications (IJERA) (UGC Approved Journal) along with Hemant Shirsat, Nihar Koli, Mohammad Younus in July 2021.
- Prof. Amit Aylani published papers “ONLINE EVENT VENUE BOOKING SYSTEM”, “Digital Police System: FIR Registration”, “Home Automation System: Smart Devices” in International Journal of Scientific Research in Engineering and Management in July 2021.
- Department conducted Audit course on “Industry ready web developer” for TE students in collaboration with KidsGalaxy. .

“ As engineers, we were going to be in a position to change the world – not just study it.
 —Henry Petroski, American engineer ”

WEBINAR ON Technical Paper Analysis

Department arranged a webinar on 'Seminar On Technical Paper Analysis' on Wednesday, September 22, 2021 for SE students. The speaker for the event was Dr. Anjali Deshpande who is an expert in the field of research.

Know an Alumnus

Hemraj Mahadeshwar

As an alumni, I feel immense pride while speaking about our Computer Department at VIT. The pedigree of the professors along with their cordial manner of teaching is second to none. I had the honor of being taught by these professors which had a significant impact on me. But if I had to name one, I truly admired the passion with which Professor Rugved Deolekar taught the subjects of Data Structures and Algorithms. This not only kept the students engaged but also instilled a sense of responsibility among the students. In my opinion, it provided a very important push to ensure that the students evolved into career-driven adults.

Also the staff present at the computer department is extremely helpful and works hand in hand with the students to make their experience seamless at VIT. Allowing the students to put all their focus into academics with minimum distractions.

From a student's perspective, it's important for the department faculty to be flexible, keen on adapting new changes. And this was a hallmark feature of our computer department. Providing subsidies and encouragement to students doing internships during academic years..



Also conducting hackathons and seminars gave the students the vital exposure they needed. I feel confident in exclaiming that all students enrolling into this program will be assured education of the highest quality

“ Be dependent on yourself and know that courage has to be born within you. It takes time but you have to work for
 – Sudha Murthy ”

Webinar on Game Development and Hands-On Workshop by CESA

CESVIT **VIT**

CESA-VIT PRESENTS

GAME DEVELOPMENT

Speaker :
Mr. Pravin Mane
 Senior Unity 3D Game and Augmented Reality Developer

Webinar	Hands on Workshop
18th September 2021 Saturday	19th September 2021 Sunday

Time : 5 p.m. to 6:30 p.m.

Platform : MsTeams Tools used: unity

DATE: September 18th-19th, 2021.
 SPEAKER: Mr. Pravin Mane, a Senior Unity Game and Augmented Reality Developer

DAY 1:
 Sir started the event by sharing his journey and how he got into the gaming industry. He then gave the students a brief introduction of the evolution of games from ancient chess to angry birds to PUBG. He then spoke about how the video game market is now the highest entertainment industry with more than 2.7 billion gamers worldwide. He explained in detail the process and aspects of game development including the different stages of producing the enthralling idea for the game, developing the program and bug fixing. He also enlightened the students about different job opportunities from junior programmer/designer/ animator to senior team leaders. Link: <https://youtu.be/q0sKw3QbG2s>

DAY 2:
 Following the webinar, we had a hands-on workshop. Sir first briefed the participants about the Unity website and helped the students with the installation. We started by learning about the interface followed by shifting and manipulating objects. Further, he clued the students about the different Unity technologies like Unity UI which is a UI engine to make UI for UI games, Unity Collaboration where you can collaborate your code with different developers like GitHub, Timeline to create a cinematic content among other packages. Link: <https://youtu.be/1DInAc-PEe8>

Use of Technology in Vaccine Temperature Monitoring

Vaccine cold chain monitoring – ensuring essential immunization services during COVID-19 has proven to be challenging in developing countries. Mobile technology and IoT have the potential to optimize the vaccine’s supply chain. Through IoT sensors placed on the vaccine, cold chain data loggers transmit accurate information of condition logs via cellular data networks to the cloud. One example is the Electronic vaccine intelligence network(eVIN), an IoT-enabled mobile-based technology developed by the UNDP and the Indian government, provides real-time logistics management across the vaccine cold chain. The app – connected to IoT sensors placed on the vaccine – tracks the location, temperature and stock levels of vaccines, ensuring the supply is safe and reliable.



Reference: <https://www.gsma.com/mobilefordevelopment/blog/iot-applications-in-the-fight-against-covid-19>



I am a big believer that technology shapes mankind
--Mukesh Ambani



Webinar on Delving into Data Science by CSI



DATE: September 25th, 2021.

SPEAKER: Mr. Suraj Shukla, Data Scientist, CIMB AI Lab

Mr. Suraj Shukla started the event by sharing his insight on how companies use data science for better profit. He also emphasized the importance of mathematics in data science and even a basic understanding of simple topics like matrices can be of huge help, then he talked about various branches of Data Science such as ML, AI, Deep Learning.

After a brief introduction to the vast field Data Science, Mr. Suraj Shukla explained various use cases where Data Science is used and gave various practical examples related to the subject and how hospitals, banks, social media, customer service, OTT platforms and other services use Data Science.

Machine Learning was covered, and various examples were given on the topic. Then Mr. Shukla talked about the skillset an aspiring data scientist should have. The speaker emphasized on coding skills, mathematics which are very important steppingstones in becoming an excellent Data Scientist.

A practical demo on Machine Learning was held, where the speaker explained how much time he spends on writing code and doing math. The speaker briefly explained the code and what the graphs mean and how co-relation among data is important.

Link: <https://youtu.be/272N6YV1am8>

Programming Paradigm

Article by Prof. Sanjeev Dwivedi

a] Imperative Programming: It is one of the oldest programming models that works on Turing principle. The programmer instructs the machine, how to change the state and features exclusive relations to machine architecture. It works by changing the programming state by statements, loop, variables etc. The advantage of this type of programming paradigm is its simplicity to program.

b] Procedural Programming: It enhances difficulty of programming where the flow of execution is from top to bottom fashion.

Ex. C, FORTRAN, Pascal, Basic etc.

c] Declarative Programming: Declarative programming is to be written in terms of expressions which basically expresses the things in terms of computational logic. It focuses more on what needs to be done, and not how it should be done. In other words, it intends to declare the result without concentrating on how the result is produced.



d] Logical Programming: Logical Programming turns out to be an abstract model for computation. The desired result is declared as an answer to the question using its rules. The logical programming language is associated with AI and Machine Learning.

Ex. Prolog, Datalog, etc.

“It is important to follow your dreams and heart. Do something that excites you.”
 --Sundar Pichai

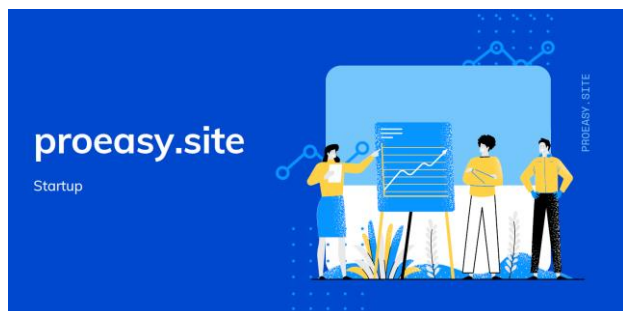
Connected: The Startup



There are many routes to an expected outcome. There are many ways to achieve one design, there are numerous techniques to code the same output. Well, let's explore the different approach to education here. With connected we bring innovation in education and learning to you! Connected is the startup started by our own students with an intention of connecting the Student Chapters and educational communities with students across all the colleges within our nation and eventually global

Connected Team: Sahil Maltankar, Founder, Shrey Solanki(Co-Founder), Ankit Singh, Ridima Tambde, Nilakshi Nagrale, Shubra Masurkar, Rujuta Lanke, Dhiraj Chaudhari, Archita Dube, Damini Malpote, Kalpesh Parmar

Proeasy.site (Startup)



BE students Shrey Solanki, Archita Dube, Rujuta Lanke under the guidance of Prof. Sachin Deshpande started a new startup to improve the technique of website development considering the ease and the high extend of personalization and customization. A platform capable to provide Programmer's precision to any computer literate person.

Human Computer Interaction and UI/UX: A Boom Article by Shrey Solanki (BE Student)

The human brain is the most complicated structure known in the cosmos. Recognizing the thoughts and the needs is a psychological journey. Psychological first aid could help develop the way humans interact with computers while enhancing the experience of the user. The human brain thinks in different ways- sometimes you do things without knowing where it might lead you.

Planning and designing techniques for humans to interact with computers is a upcoming concept which is missed out by most of the developers. The requirement of design thinking, empathizing with the user and considering the user experience is becoming more and more salient with the growing competition in the software industry.



UX design is an iterative process, not really a linear one. The stages of the UX process frequently overlap, and there is a lot of back-and-forth. Consider research and design: when the UX designer learns more about the problem and the users, he or she may wish to reconsider certain design decisions. Accept that your design will never be flawless, so spend your time analyzing your users' wants and making your product a little better for them.

UPCOMING EVENTS

- ELECTIVE ORIENTATION FOR TE AND BE WILL BE CONDUCTED IN OCTOBER 2021
- DEPARTMENT WILL CONDUCT AUDIT COURSE FOR TE IN DECEMBER 2021
- CESA WILL HOST WORKSHOP ON GIT AND GITHUB IN OCTOBER 2021
- CSI WILL HOST A NATIONAL CONFERENCE CYBERFRAT IN OCTOBER 2021

“
"Ultimately, the greatest lesson that COVID-19 can teach humanity is that we are all in this together."
”

-Kiran Mazumdar-Shaw

THE
EDITORIAL TEAM

PROF. AMIT K. NERURKAR

Chief Editor