Vidya Vikas Education Trust's
Universal College of Engineering
Approved by AICTE, DTE, Maharashtra State Government and Affiliated to Mumbai University
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Bits & Bytes

An Initiative By

ITSA

Department of Information Technology

#SATYAVACHAN

Love your family.
Spend time, be kind
and serve one
another.
Make no room
for regrets.
Tomorrow is not
promised and today is
short.

TABLE OF CONTENTS

Designed by Mrs. Mudra Doshi & Mrs. Aditi Malkar

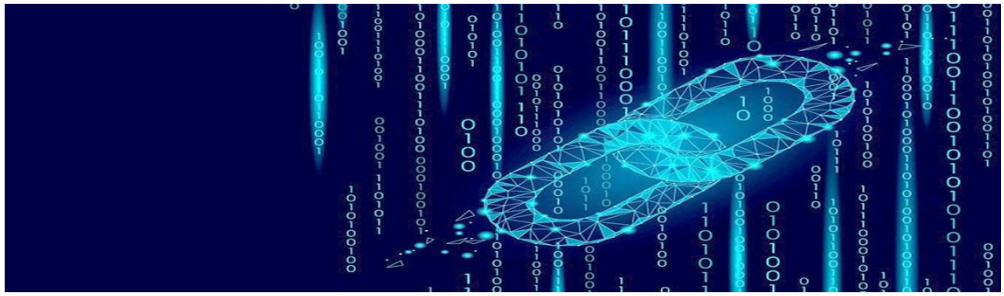
5 Programming Languages Blockchain Developers Need To Know

The blockchain is an undeniably ingenious invention – the brainchild of a person or group of people known by the pseudonym, Satoshi Nakamoto. But since then, it has evolved into something greater, and the main question every single person is asking is: What is Blockchain?

Is Blockchain Technology the New Internet?

By allowing digital information to be distributed but not copied, blockchain technology created the backbone of a new type of internet. Originally devised for the digital currency**,** Bitcoin blockchain**, (**Buy Bitcoin) the tech community has now found other potential uses for the technology.

In this guide, we are going to explain to you what the blockchain technology is, and what its properties are what make it so unique. So, we hope you enjoy this, What Is Blockchain Guide. And if you already know what blockchain is and want to become a blockchain developer please check out our in-depth blockchain tutorial and create your very first blockchain.



1. Python :

The popular programming language is useful for writing decentralised applications and systems. The simple and easy-to-use structure of Python makes it an excellent choice for blockchain projects. The wide range of libraries and frameworks in Python makes it easier to write blockchain applications without spending too much time. Many companies are working on Python packages. To create blockchain apps without writing too much of code.

2. JavaScript :

The scripting language is greatly popular among developers. JavaScript has multiple libraries and frameworks. Right from jQuery and React to Angular and Node, JavaScript is considered as a secure choice to build less buggy apps. JavaScript is important for writing blockchain apps where transactions are irreversible.

3. Solidity :

The object-oriented, high-level language is used for creating smart contracts. The contracts are programs which dictate the function of accounts. Solidity is inspired by C++, Python, and JavaScript. It is created to leverage the Ethereum Virtual Machine (EVM).

4. Go :

The programming language is used by Hyperledger, which is the biggest open-source software providers for enterprise blockchain. Go has become a popular language for creating blockchain applications. The simplicity of the language has helped it find traction among blockchain developers. The development process is simpler as compared to other languages.

5. C++ :

C++ offers better control over CPU and memory usage. The popular cryptocurrency, Bitcoin is developed using C++. The language remains important in the blockchain world. C++ avoids accidental edits to data due to its principles and features. The language is not desired for complex blockchain apps like smart contracts.

Ref: *https://content.techgig.com/5-programming-languages-blockchain-developers-need-to-know/articleshow/75656054.cms*

-Mr. AKSHAY AGARWAL
(Assistant Professor)

Cyber Security Treats and Trends for 2020

Phishing Gets More Sophisticated :

Phishing attacks, in which carefully targeted digital messages are transmitted to fool people into clicking on a link that can then install malware or expose sensitive data, are becoming more sophisticated.

Ransomware Strategies Evolve :

Ransomware attacks are believed to cost victims billions of dollars every year, as hackers deploy technologies that enable them to literally kidnap an individual or organization's databases and hold all of the information for ransom.

Cryptojacking : The cryptocurrency movement also affects cybersecurity in other ways. For example, cryptojacking is a trend that involves cyber criminals hijacking third-party home or work computers to "mine" for cryptocurrency. Because mining for cryptocurrency (like Bitcoin.

Cyber-Physical Attacks :

The same technology that has enabled us to modernize and computerize critical infrastructure

also brings risk. The ongoing threat of hacks targeting electrical grids, transportation systems, water treatment facilities, etc., represent a major vulnerability going forward.

State-Sponsored Attacks :

Beyond hackers looking to make a profit through stealing individual and corporate data, entire nation states are now using their cyber skills to infiltrate other governments and perform attacks on critical infrastructure. According to a report from Thomson Reuters Labs: "State-sponsored cyber attacks are an emerging and significant risk to private enterprise that will increasingly challenge those sectors of the business world that provide convenient targets for settling geopolitical grievances."

IoT Attacks :

The Internet of Things is becoming more ubiquitous by the day (according to Statista.com, the number of devices connected to the IoT is expected to reach 75 billion by 2025). It includes laptops and tablets, of course, but also routers, webcams, household appliances, smart watches, medical devices, manufacturing equipment, automobiles and even home security systems.

Smart Medical Devices and Electronic Medical Records (EMRs) :

The health care industry is still going through a major evolution as most patient medical records have now moved online, and medical professionals realize the benefits of advancements in smart medical devices. With hospitals and medical facilities still adapting to the digitalization of patient medical records, hackers are exploiting the many vulnerabilities in their security defenses.

Third Parties (Vendors, Contractors, Partners) :

Third parties such as vendors and contractors pose a huge risk to corporations, the majority of which have no secure system or dedicated team in place to manage these third-party employees. A report on "Security Risks of Third-Party Vendor Relationships" published by RiskManagementMonitor.com includes an info graphic estimating that 60% of data breaches involve a third party and that only 52% of companies have security standards in place regarding third-party vendors and contractors.

Connected Cars and Semi-Autonomous Vehicles :

While the driverless car is close, but not yet here, the connected car is. A connected car utilizes onboard sensors to optimize its own operation and the comfort of passengers. This is typically done through embedded, tethered or smartphone integration.

Ref : *https://onlinedegrees.sandiego.edu/top-cyber-security-threats/*

-Mr. JIGAR CHAUHAN
(Assistant Professor)

5 Best Book to Improve your Coding Skills

Learning to write a good code is harder than learning a new programming language but the way you write a good code differentiates you from the mediocre programmers. Coding is an art that needs a lot of study, practice, self-discipline. Often curious software developers keep looking for resources and techniques to improve their coding skills. Unfortunately, colleges, universities and training centers focus on teaching programming languages, not the art of writing good code.

Well, worry not! In this article, we have compiled a list of 5 best books that can help you improve your coding skills. Reading these, you will wish you had known these books earlier.

1. Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin :

Popularly known as Clean Code by Uncle Bob Martin is one of the best books to learn the gimmicks of writing good code. The book is divided into three parts. The first describes the principles, patterns, and practices of writing clean code. The second part consists of several case studies of increasing complexity. Each case study is an exercise in cleaning up code—of transforming a code base that has some problems into one that is sound and efficient. The third part is the payoff: a single chapter containing a list of heuristics and “smells” gathered while creating the case studies.

2. Working Effectively With Legacy Code by Michael Feathers :

A software engineer who is developing and maintaining an application can not escape from bad code. This book shares start-to-finish strategies for working more effectively with large, untested legacy code bases. This book also includes a catalog of twenty-four dependency-breaking techniques that help you work with program elements in isolation and make safer changes.

3. Refactoring to Patterns 1st Edition by Joshua Kerievsky :

Refactoring of code is nothing but the process of beautifying your already working code. This book offers the tactics to utilize the already tried and tested patterns of software development. This book introduces the theory and practice of pattern-directed refactoring: sequences of low-level refactoring's that allow designers to safely move designs to, towards, or away from pattern implementations. Using code from real-world projects, Kerievsky documents the thinking and steps underlying over two dozen pattern-based design transformations. Along the way he offers insights into pattern differences and how to implement patterns in the simplest possible ways.

4. Refactoring: Improving the Design of Existing Code by Martin Fowler :

Increasingly, software system professionals are discovering just how difficult it is to work with these inherited, non-optimal applications. For several years, expert-level object programmers have employed a growing collection of techniques to improve the structural integrity and performance of such existing software programs. A collective effort of some of the best programming experts, this book demystifies the master practices of refactoring that have remained in the domain of experts. The book demonstrates how software practitioners can realize the significant benefits of this new process.

5. Beautiful Code: Leading Programmers Explain How They Think by Andy Oram and Greg Wilson :

Ever thought how expert programmers approach difficult problems in software development? In this unique and insightful book, the authors have compiled the case studies from some of the leading computer scientists that reveal how they found unusual, carefully designed solutions to high-profile projects. The authors think aloud as they work through their project's architecture, the tradeoffs made in its construction, and when it was important to break rules.

Ref: https://content.techgig.com/5-best-books-to-improve-your-coding-skills/articleshow/74928568.cms

-Mr. AKSHAY AGARWAL
(Assistant Professor)

 # 1 Reason To Buy Apple Product?

Apple is known for having a user base that's very loyal and enthusiastic about their product, but there is an equally enthusiastic hater towards Apple, who have trouble understanding why anyone would choose Apple devices over their competitors. So what actually #1 reason to buy Apple product :

Could it be their beautiful industrial design?
Their approachable user interface?
Their optimized operating system?
Or perhaps their seamless user experience?

In my opinion, those are all legitimate advantages of apple products, but there's one huge reason that's rarely mentioned by news outlets or the user themselves, and that is **Privacy!**

So why does the privacy even matter?

After all, it appears the importance of privacy is declining these days with social media sites like Facebook, Twitter, and Instagram people are comfortable sharing their data than ever before.

Mark Zuckerberg said on this topic "People have really gotten comfortable not only sharing more information and different kind but more openly and with more people . that social norm is just something that has evolved over time ”

It's not only Facebook, but google and amazon also collect the massive amount of data, but despite these privacy violations, we continue to use services from Facebook, Amazon and google likely because the vast majority of people don't even know these privacy violations are happing. Companies do disclose this information, but it often buried deep in their term and condition. Many people often ask me this question "why should I care about privacy if I have nothing to hide"

My answer to them is "Privacy isn't about hiding something because you have broken the law. privacy is about having the right to withhold information in certain circumstances to prevent misuse and misappropriation.”

So does this mean Apple doesn’t collect the data?

No, Apple does collect data but in a brilliant manner.

Apple uses techniques like differential privacy which prevents them from identifying the particular device data is coming from, and by combing this anonymous data sourced from thousand of the device, Apple can recognize patter and behaviors that reveal how people are using their devices all without exposing the user themself.

So while it may not be an obvious benefit of the Apple ecosystem, privacy is the quality that differentiates them the most from competitors.

And it's not just Apple implement once for bragging rights and then moves to the back burner. Privacy is integrated into just about every feature of every product.

For example: maps use on-device data to collect and store information like search terms and route navigation so where you have been and where you are going isn't stored on apple server

At the end its an individual choose but remember ***“ if you're not paying for the product, you likely are the product ”***

Ref : *https://www.my-blog-cara.com/*

-Mr. RAHIL MEHTA
(S.E - IT)

Touch Typing for Kids: An Essential 21st Century Skill

Students are now engaging with the world through their keyboards more than ever before, recording notes, completing homework assignments, and even taking standardized tests. For today's kids, learning to type from an early age should be alongside learning to write, read, and perform arithmetic. Here are some of the secrets to teaching touch typing to your student or child as part of their early childhood education.

What Is Touch Typing?

In contrast with normal typing, touch typing is simply pressing the keys without looking at them. If you can keep your eyes on the screen without looking down, you can touch type. This method is more efficient, less tiring, and comes with some surprising cognitive benefits, as we'll see below.

Touch typing has a noticeable effect on the brain, psychologists say.

"The single most important thing is if you can type without looking down. If you can do that, what's happening in your brain changes," says Sue Westwood, a child psychologist who runs a touch typing programme called English Type. "Muscle memory is a physical skill—so once its trained, it becomes unconscious and automatic. It frees up your conscious cognitive resources to focus solely on the task in hand."

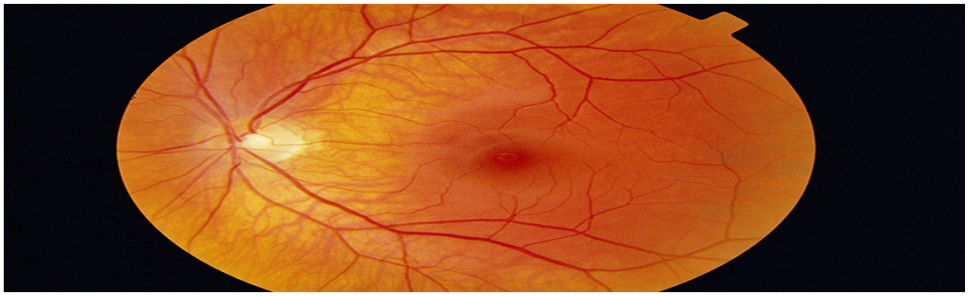
What Are the Benefits of Touch Typing?

"Schools really are wasting their time not teaching typing," Westwood says. "These days many schools teach coding, because it's fashionable. But to be a professional coder you have to be able to keep your eyes on the screen—so you've got to be able to type using muscle memory."

Ref: https://www.opencolleges.edu.au/informed/21st-century-skills/touch-typing-kids-essential-21st-century-skill/

-Mrs. ADITI MALKAR
(Assistant Professor)

Deep Learning Sharpens Views Of Cells And Genes



Neural networks are making biological images easier to process.

Eyes are said to be the window to the soul — but researchers at Google see them as indicators of a person's health. The technology giant is using deep learning to predict a person's blood pressure, age and smoking status by analyzing a photograph of their retina. Google's computers glean clues from the arrangement of blood vessels — and a preliminary study suggests that the machines can use this information to predict whether someone is at risk of an impending heart attack.

The research relied on a convolutional neural network, a type of deep-learning algorithm that is transforming how biologists analyses images. Scientists are using the approach to find mutations in genomes and predict variations in the layout of single cells.

Scientists also had to identify which types of study could be conducted using networks that must be trained with huge sets of images before they can start making predictions.

Cell biologists at the Allen Institute for Cell Science in Seattle, Washington, are using convolutional neural networks to convert flat, grey images of cells captured with light microscopes into 3D images in which some of a cell's organelles are labeled in color.

"What you're seeing now is an unprecedented shift in how well machine learning can accomplish biological tasks that have to do with imaging," says Anne Carpenter, director of the Imaging Platform at the Broad Institute of MIT and Harvard in Cambridge, Massachusetts.

"The most interesting phrase in science isn't 'Eureka!', but 'That's weird — what's going on?'" Nelson says. "Imaging is important, but so is chemistry and molecular data", says Alex Wolf, a computational biologist at the German Research Center for Environmental Health in Neuherberg. "I think there will be a very big breakthrough in the next few years," he says, "that allows biologists to apply neural networks much more broadly."

Ref: *https://www.nature.com/articles/d41586-018-00004-w*

-Mrs. SANKETI RAUT
(Assistant Professor)

Intel India Collaborates With Tech Ecosystem To Fight Coronavirus

Intel has come forward to support the COVID-19 battle in India. The company has launched key initiatives with the tech ecosystem to help the government, industry, and academia. The team of engineers from Intel is working closely with the authorities, industry and institutes on tech solutions to combat COVID-19 Nivruti Rai, Country Head, Intel India and VP, Data Platforms Group, Intel Corporation said, "During these challenging times, Intel's top priority is protecting the health and well-being of employees while keeping the business running for our customers and supporting the communities we operate in.

I believe technology is crucial in combating COVID-19 and our ability to help save and enrich lives through Intel technology has never been more vital. The need of the hour is to collaborate with the government, academia, research community and the larger ecosystem and work together to develop solutions for testing, treatment of COVID-19."

The chipmaker has joined efforts of India's Council of Scientific and Industrial Research (CSIR) and International Institute of Information Technology, Hyderabad (IIIT-H). The three organizations are deploying Intel client and server solution to accelerate COVID-19 testing. The company is supporting the research of genome sequencing to understand the epidemiology and AI-based risk stratification for patients.

Intel is working with the IT industry body, Nasscom to build apps ecosystem and multi-cloud backend infrastructure. This will be used to enable population-scale COVID-19 diagnostics. The platform developed by Nasscom's task force has been adopted by the state government of Telangana. The platform brings together more than 100 dashboards, 30+ government and public datasets, with hundreds of thousands of data points.

The company has committed over $50 million towards technology initiatives focused on COVID-19 pandemic response. It has allocated $10 million to support local communities suffering due to the COVID-19 crisis.

Ref:

https://content.techgig.com/intel-india-collaborates-with-tech-ecosystem-to-fight-coronavirus/articleshow/75786930.cms

-Mr. ALLAN LOPES
(Assistant Professor)

An Article On What Mothers Are made Of

Mothers are not rare to find. Good mothers are. Have you ever wondered what goes on to make a good mother?

What makes good mothers? It is a pertinent question whose answer cannot be contained within a few words. Mothers comprise of a bundle of emotions that sometimes defy reason. So this goes out to all the mothers who have kept awake all night with their sick toddlers in their arms, constantly uttering those compassionate words, "It's OK honey, Mommy's here."

For all the mothers who run carpools and make cookies and sew Halloween costumes. And all the mothers who don't.

For those who show up at work with milk stains on their dress and diapers in their handbags.

For those mothers who cannot restrain tears from trickling down their cheeks when they hold their babies for the first time in their arms.

For the mothers who gave homes to babies and gifted them a family.

For the mothers who yell at their kids who clamour for ice cream before dinner.

For the mothers who defy all odds just to watch her kid perform and repeat to themselves "That's my child!!"

For all the mothers who read "Goodnight, Moon" twice a night for a year, and then read it again. "Just one more time."

For the mothers who incontinently turn their heads when they hear the word "Mom", even though they know that their kids are nowhere around.

For the mothers who silently shed tears for their children who have gone astray.

For all the mothers of the victims of all these school shootings, and the mothers of those who were involved in the shooting.

For the mothers of the Survivors, and the mothers who sat in front of their TVs in horror, clinging to their child who just arrived from school safely.

So, this is meant for all the young and aged mothers, working mothers and housewives, married mothers and the single mothers, those with money and without and for those without whom life would have been insufferable.

Wish you a very Happy Mother's Day!!

Ref: *https://www.theholidayspot.com/mothersday/an_article.htm*

-Mrs. ROVINA DBRITTO
(Assistant Professor)

Student Contribution For COVID-19

Date : 04.05.2020

Platform: Live on Saawan Kanjiya YouTube channel **OcuLus GAMING.**

About tournament: Call of Duty: Mobile is a free-to-play first-person shooter developed by TiMi Studios and published by Activision for Android and iOS. Tournament was organized on 4th May 2020 which consisted of 8 teams and each team had 5 players, so there were 40 players participating in the tournament. Every match was streamed live on the YouTube channel (OcuLus Gaming). After the tournament we shortlisted 10 MVPs (Most Valuable Players) on the basis of their performances and organized a charity-based match between them. In this, the count of kills done by the mvps of both teams was multiplied by 10 (i.e.) mvp of team A has 16 kills and mvp of team B has 14 kills so in all there were 30 kills, so we just multiplied it by 10 which is 300/- and then this amount was donated in **PMNRF(Prime Minister's National Relief Fund).**

It was a small contribution from our side to support our country as we battle the impact that Coronavirus has had on our community.

OcuLus GAMING Link:

https://www.youtube.com/channel/UC8FhwV_1hPjJiux_LsJxoiw/featured

-MR. RUMIT JAIN
(B.E - IT)

-MR. ABHIJEET PATRE
(B.E - IT)

-MR. SAAWAN KANJIYA
(B.E - COMPS)

FACULTY'S ACHIEVEMENT

Faculty Development Programs Attended

Sr. No.	Name of the Faculty	FDP's / Workshop Details
1	Mrs. Yogita Mane	❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020
2	Mr. Allan Lopes	❖ 3 Days National Level Faculty Development Program on "Online College Management & Online Content Creation Tools" by North Storm Academy, 30-4-2020 to 2-5-2020 ❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020
3	Mrs. Mudra Doshi	❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020
4	Mr. Jigar Chauhan	❖ Online Faculty Development Program on "Internet of Things" by ATAL Academy & IIT Nagpur, 25-4-2020 to 29-4-2020 ❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020 ❖ 2 Days Workshop on "Internet of Things" by UCOE & IET, 14-5-2020 to 15-5-2020
5	Mrs. Aditi Malkar	❖ One Week Faculty Development Program on "R Programming" by PVPPCOE in association with Spoken Tutorial - IIT Bombay, 27-4-2020 to 2-5-2020 ❖ 3 Days Online Workshop on "Education 4.0" by IQAC Atharva College of Engineering, 28-4-2020 to 30-4-2020 ❖ 3 Days National Level Faculty Development Program on "Online College Management & Online Content Creation Tools" by North Storm Academy, 30-4-2020 to 2-5-2020 ❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020

Faculty Development Programs Attended (Cont.)

Sr. No.	Name of the Faculty	FDP's / Workshop Details
6	Mrs. Rovina Dbritto	❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020
7	Mrs. Sanketi Raut	❖ One Week Faculty Development Program on "R Programming" by PVPPCOE in association with Spoken Tutorial - IIT Bombay, 27-4-2020 to 2-5-2020 ❖ 3 Days Online Workshop on "Education 4.0" by IQAC Atharva College of Engineering, 28-4-2020 to 30-4-2020 ❖ 3 Days National Level Faculty Development Program on "Online College Management & Online Content Creation Tools" by North Storm Academy, 30-4-2020 to 2-5-2020 ❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020
8	Mr. Akshay Agarwal	❖ One Week Faculty Development Program on "PYTHON" by UCOE in association with Spoken Tutorial - IIT Bombay, 4-5-2020 to 8-5-2020

Webinar Attended by IT Department Conducted By Universal Group

Sr. No.	Webinar Attended Details
1	❖ 1 Days Webinar on "Intellectual Property Rights" by Lords Universal Law College, 20-5-2020
2	❖ 1 Days Webinar on "Stress Free Parenting in Lockdown" by Universal College of Engineering, 22-5-2020
3	❖ 1 Days Webinar on "Bitcoin and other Cryptocurrencies " by Universal College of Engineering, 28-5-2020

Webinars Attended

Sr. No.	Name of the Faculty	Webinars Attended Detail
1	Mrs. Yogita Mane	❖ Webinar on "Star Certified DevOps Expert" by Star Certification, 11-5-2020
2	Mr. Allan Lopes	❖ Webinar on "Accreditation Management System Demo" by InPods Ed-tech, 30-4-2020 ❖ National Level Webinar on "Role of WIPO in Preservation of Intellectual Property" by DCOL, 8-5-2020 ❖ 1 Day Webinar on "Use of Excel Skills in Research" by UCOE, 12-5-2020 ❖ Webinar on "Star Certified DevOps Expert 2.0" by Star Certification, 13-5-2020
3	Mrs. Mudra Doshi	❖ Participation Certificate in International Webinar on "Application of Chanakya Niti in Modern Education" by BSM & MUCTA, 11-5-2020 ❖ Online National level Webinar on "Understanding & Tackling A Few Unattended Areas Of The NAAC Assessment" by IQAC Cluster India & WhiteCode , 8-5-2020 to 10-5-2020 ❖ Completion Certificate of National Webinar on " Assessment and Accreditation Framework For Affiliated Colleges", 9-5-2020 to 12-5-2020 ❖ Webinar on "Star Certified DevOps Expert" by Star Certification, 11-5-2020 ❖ 1 Day Webinar on "Use of Excel Skills in Research" by UCOE, 12-5-2020
4	Mr. Akshay Agarwal	❖ 4 – Days Webinar on "Blockchain Technologies for Smart Contracts" by TSEC, 3-5-2020 to 6-5-2020
5	Mrs. Aditi Malkar	❖ Webinar on "Identifying Weaker Students And Remedial Actions" by InPods Ed-tech, 2-5-2020 ❖ 4 Days Webinar on "IT and IPR 2020" by IQAC SLRTCE, 5-5-2020 to 8-5-2020 ❖ Participation Certificate in "NAAC: Systematic Data Organization and Presentation" by VIT, 16-5-2020

Webinars Attended Cont.

Sr. No.	Name of the Faculty	Webinars Attended Detail
6	Mrs. Sanketi Raut	❖ Webinar on "Accreditation Management System Demo" by InPods Ed-tech, 30-4-2020 ❖ 4 Days Webinar on "IT and IPR 2020" by IQAC SLRTCE, 5-5-2020 to 8-5-2020 ❖ Webinar on "Star Certified DevOps Expert" by Star Certification, 11-5-2020 ❖ Participation Certificate in "NAAC: Systematic Data Organization and Presentation" by VIT, 16-5-2020 ❖ Webinar on "Blockchain Technology" by Vidyavardhini's COE, 21-5-2020
7	Mrs. Rovina Dbritto	❖ Webinar on "Online Teaching – Learning and Online Assessment Platform" by InPods Ed-tech, 29-4-2020 ❖ 1 Day Webinar on "Use of Excel Skills in Research" by UCOE, 12-5-2020

Paper Publications 2020

Sr. No.	Name of the Faculty	Title of the Paper	Journal / Conference Name
1	Mrs. Yogita Mane	Detection And Deactivation Of Application Layer Based DDoS Attack From Private Tor Network	4th Scopus Indexed Springer International Conference on Inventive Communication and Computational Technologies (ICICCT 2020), 28-29 May 2020
2	Mrs. Aditi Malkar	Student Performance Prediction System	International Research Journal of Engineering and Technology (IRJET), ISSN : 2395-0072, Impact Factor : 7.529, Volume - 07, Issue – 05, May 2020
3	Mr. Allan Benamin Lopes	Soil Quality Analysis And Crop Fertility Prediction	International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150, Impact Factor : 6.466, Volume - 06, Issue – 01, April 2020
		Heuristic Based Malicious URL Detection	International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150, Impact Factor : 6.466, Volume - 06, Issue – 01, April 2020

Quiz Attended

Sr. No.	Name of the Faculty	Quiz Detail
1	Mrs. Yogita Mane	❖ Appreciation Certificate on "Covid-19 Awareness Quiz Contest" by Vidyavardhini, 23-4-2020
2	Mr. Allan Lopes	❖ Appreciation Certificate on "Covid-19 Awareness Quiz Contest" by Vidyavardhini, 23-4-2020
3	Mrs. Sanketi Raut	❖ Merit Certificate of Online Quiz on "Intellectual Property Right (Basics and its types)" by Student Alliance LLP, 7-5-2020 ❖ Appreciation Certificate of Online Quiz on "Patent Online Quiz" by Student Alliance LLP, 8-5-2020 ❖ National Level Awareness Quiz on "Test Your Immunity On Fact Versus Fake News On Covid-19" SIIMS, 10-5-2020 ❖ National Level Online Quiz on "Awareness of Outcome-Based Education Paradigm" by SLRTCE, 12-5-2020 ❖ Participation Certificate in "National Level C Programming Quiz" by KCCEMSR, 15-5-2020 ❖ Completion Certificate on "National Level Computer Knowledge Quiz" by PVPPCOE, 17-5-2020 ❖ Completion Certificate on National Level Technical Quiz on "Hardware, Networking, Excel and Word" by PVPPCOE, 21-5-2020 ❖ Participation Certificate in Test Series Program "Internet of Things" by Godavari COE, 27-5-2020
4	Mr. Jigar Chauhan	❖ Appreciation Certificate of "Covid-19 Awareness Quiz" FRCRCE, 5-5-2020 ❖ Participation Certificate on National Technology Day "Quiz Competition" SSTCAC, 11-5-2020 ❖ Appreciation Certificate of Online Quiz on "Fundamentals Of Computer Science" VIVA, 18-5-2020 ❖ Completion Certificate on "Big Data Using Hadoop" by PVGCOE, 21-5-2020 ❖ Completion Certificate on National Level Technical Quiz on "Hardware, Networking, Excel and Word" by PVPPCOE, 22-5-2020

Quiz Attended (Cont.)

Sr. No.	Name of the Faculty	Quiz Detail
5	Mrs. Aditi Malkar	❖ Merit Certificate of Online Quiz on “Intellectual Property Right (Basics and its types)” by Student Alliance LLP, 7-5-2020 ❖ Appreciation Certificate of Online Quiz on “Patent Online Quiz” by Student Alliance LLP, 8-5-2020 ❖ National Level Awareness Quiz on “Test Your Immunity On Fact Versus Fake News On Covid-19” SIIMS, 10-5-2020 ❖ National Level Online Quiz on “Awareness of Outcome-Based Education Paradigm” by SLRTCE, 12-5-2020 ❖ Participation Certificate in “NAAC: Systematic Data Organization and Presentation” by VIT, 16-5-2020 ❖ Participation Certificate in “National Level C Programming Quiz” by KCCEMSR, 15-5-2020 ❖ Participation Certificate in Test Series Program “Internet of Things” by Godavari COE, 27-5-2020
6	Mrs. Rovina Dbritto	❖ Certificate of Participation in “C++ Quiz” by GNSCOE, 13-5-2020

HEARTIEST CONGRATULATIONS..!!!

Mr. Jigar Chauhan has completed the Course on

“Star Python” as a *STAR CERTIFIED Professional* by Star Certification,

valid from 8-5-2020 to 8-5-2023.

Certification Courses Completed

Sr. No.	Name of the Faculty	Certification Courses Detail
1	Mr. Allan Lopes	❖ Coursera Certification on "Build Your Portfolio Website with HTML and CSS" by Rhyme, 17-5-2020
2	Mr. Akshay Agarwal	❖ Coursera Certification on "Blockchain Basics" by UB & SUNY, 19-4-2020
3	Mr. Jigar Chauhan	❖ Coursera Certification on "Programming for Everybody (Getting Started with Python)" by University of Michigan, 20-5-2020 ❖ Coursera Certification on "Cybersecurity and the Internet of Things)" by University System of Georgia, 22-5-2020
4	Mrs. Aditi Malkar	❖ Completion Certificate of "R Training" by Spoken Tutorial Project – IIT Bombay, 6-5-2020. ❖ Coursera Certification on "R Programming" by John Hopkins University, 26-5-2020 ❖ Coursera Certification on "SQL for Data Science" by UCDAVIS, 26-5-2020
5	Mrs. Sanketi Raut	❖ Completion Certificate of "R Training" by Spoken Tutorial Project – IIT Bombay, 6-5-2020. ❖ Coursera Certification on "R Programming" by John Hopkins University, 25-5-2020 ❖ Coursera Certification on "SQL for Data Science" by UCDAVIS, 27-5-2020

Online Lecture will start from 15th June 2020.

Faculty Development Program On Artificial Intelligence

The Department of Information Technology, Universal College of Engineering, had organized a Online Faculty Development Programme On "Artificial Intelligence" under IQAC in association with National Youth Council of India & Brain O Vision Solutions India Pvt. Ltd. scheduled from **22nd May, 2020 to 26th May, 2020**. Total **744** participants had registered in the FDP from Maharashtra and other states also. Session were Live on YouTube channel. This FDP was conducted by Mr. Mehdi (Co-Founder Brain O Vision Solutions India Pvt. Ltd.) and Dr. Sri Ganesh Nagu (Research Scientist at University of Heidelberg, Germany and Professor at SRH University) .

The following topics were covered during the program:

❖Introduction to Machine Learning, Deep Learning and Daily use of DS, ML Algorithm.

❖Applications of AI for Humanities and Social Sciences.

❖The major drivers for the growth of AI in verticals such as automotive, finance and advertisement.

❖Methodologies like Supervised and Unsupervised learning algorithms that detrimental to make AI Models.

❖Introducing an AI framework and Implementing a program in Python for Scikit-Learn in Anaconda IDE.

The session ended with a short valedictory function was conducted to thank the speakers and association by HOD, Mrs. Yogita Mane .

The Team Composed of:

Convener: Mrs. Yogita Mane

Faculty Co-ordinator: Mr. Allan Lopes, Mr.Akshay Agarwal and Mrs. Mudra Doshi

Team Members: Mr. Jigar Chauhan, Mrs. Rovina Dbritto, Mrs. Sanketi Raut and Mrs. Aditi Malkar

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You can send your articles to the following email id's:
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