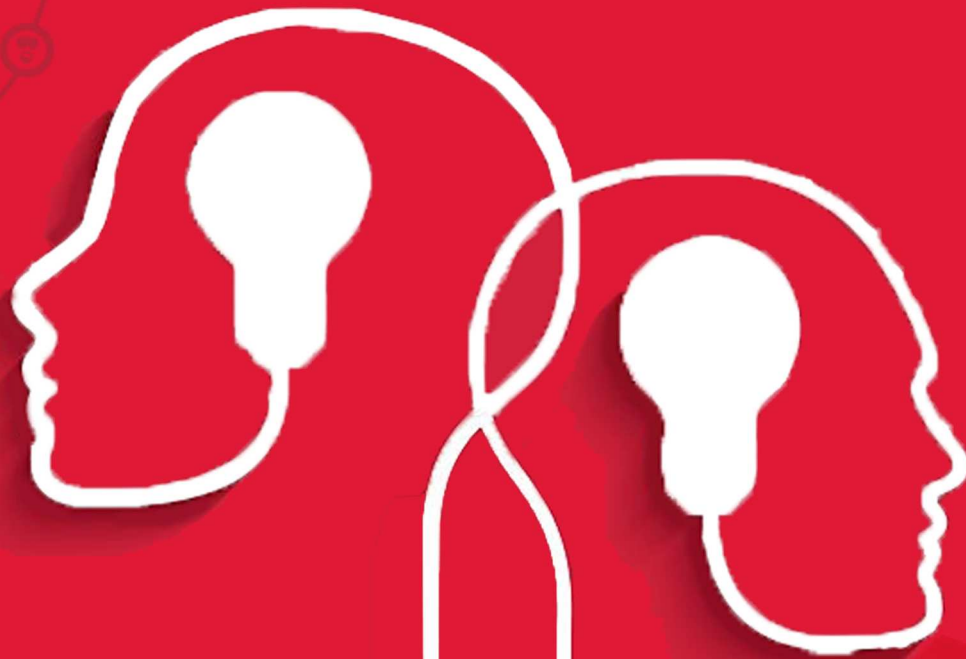


HINDUSTHAN



COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CYBERLINES

VOLUME:11



EDITOR'S DESK

From the Chief Editor Desk...



It gives me immense pleasure to bring out the issue of our magazine “CyberLines” as the name itself symbolize it marks the whole-time line of our department of ComputerScience and Engineering.

The main motto of bringing out this magazine is to show the surrounding, our achievement, work and contribution to the society for every academic year. The magazine reveals all the hard work of our students, their extracurricular activities, and we complement their hard work under the winners and toppers in this magazine, and I am quite happy in sharing these details with the Heads of the Departments, our well-wishers and all others who are bonded to CSE, through this magazine.

This magazine is also for us to look back to the past, the path we traveled together as a unit. The support we got from our colleagues and subordinates. It reflects our complete journey of the past year. It gives us time to think about our beloved passed out students, and wish them all success in the corporate life they are undergoing now. The current volume has come out well, and the work from our students has made it more colorful. We hope our forthcoming volume will be enriched with more delightful incidents, ideas and thoughts to share.

With Regards
Dr.S.Shankar
Head of the Department



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THE CYBER LINES

Computer has become the part of our life. The work of a computer engineering is not only restricted to the field of IT, their job continues even outside that, like Automobiles and many other fields. The department of Computer Science and Engineering is linked and synchronized with all other department of Engineering. Hence the world moves ahead along with us!

Our Mission

To prepare the students to become computer science professionals at par with the current trends technology and to mold them to attain excellent leadership qualities thereby making them component in the hardware, software and research arena.

Our Vision

To provide an excellence for individuals to develop technologically superior, socially conscious and nationally responsible citizens.



PEOs

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: To acquire knowledge in the latest technologies and innovations and an ability to identify, analyse and solve problems in Computer Engineering.

PEO2: To be capable of modelling, designing, implementing and verifying a computing system to meet specified requirements for the benefit of society.

PEO3: To possess critical thinking, communication skills, team work, leadership skills and ethical behaviour of necessary to function productively and professionally.

PSOs

PROGRAM SPECIFIC OUTCOMES

PSO1: An ability to understand apply, design and develop principles in the areas related to algorithms, Software Engineering, networking and database concepts for computer- based systems in solving engineering problems.

PSO2: An ability to employ modern computer languages, environments, and platforms to excel in their careers.



5 Simple Ways To Keep Your Mind Sharp

**Santhosh K V
III CSE C
Department of CSE,
HICET.**

The importance of keeping your mind sharp cannot be overstated. We're all part of a fantastic intellectual and information economy, which thrives on ideas, creativity and intelligence. Keeping your mind sharp is sure to give you the edge over the competition, and more importantly lead to your own higher levels of happiness. Running a top PR agency takes its toll, and mindfulness is crucial.

When your mind is in top shape, you will:

- Have greater motivation and focus
- Get more done
- Come up with more creative ideas
- Find inspiration more often
- Remember more
- Experience a better life
- Continue reading, absorbing knowledge and experiencing culture.
- Learn a skill or craft you've never tried before like playing an instrument, composing music, painting, building a model airplane, or even coding computer programs.
- To improve memory don't write everything down
- Give your mind time to assimilate knowledge
- Eat well, sleep well and exercise often



Quantum Computing: Moore's Law breaker or impractical innovation?

By Alen Lawrance

The wikipedia definition of Moore's Law tells us that the number of transistors on a microchip doubles every two years, though the cost of computers is halved. Our understanding of a computer is purely based on one conventional computational technology... Binary Computing. All computers we know and use have Binary Computing in its core. The core technology of transistors and integrated circuits used for computation has been doubling in on its innovation every eighteen months. We got from room sized computers that could do basic mathematics to 7 nm processor architectures with mind boggling computational capabilities. The supercomputer with the highest transistor count as of 2016 is the Chinese-designed Sunway TaihuLight, which has for all CPUs/nodes (10¹² for the 10 million cores and for RAM 10¹⁵ for the 1.3 million GB) combined "about 400 trillion transistors in the processing part of the hardware" and "the DRAM includes about 12 quadrillion transistors, and that's about 97 percent of all the transistors." That is a lot of computer horsepower. The question now arises why there is a need for a new Technological innovation in processing and computing. A simple answer to this is innovation. Human Beings have been trying to unravel the meaning of everything surrounding them since time immemorial.

Quantum Computing: Introduction

Quantum computers uses a completely different approach towards computation and problem solving. Rather than relying on the conventional two state bits, the Quantum computers rely on the universal phenomena of superposition and entanglement. A quantum bit can exist in multiple states unlike the classical computer. Entanglement is an extremely strong correlation that exists between quantum particles — so strong, in fact, that two or more quantum particles can be inextricably linked in perfect unison, even if separated by great distances. Quantum computers will have the advantage of using ones, zeros and "superpositions" of ones and zeros. All of this means is that a quantum computer can do certain tasks deemed impossible by classical machines in just a matter of seconds.

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Applications of Quantum Technology

Nobel laureate and renowned professor Richard Feynman in his 1981 speech asked, "What kind of computer are we going to use to simulate physics?". He continued to say that nature isn't classical and if one were to make a simulation of Nature, you'd better make it quantum mechanical. And this, by far, is the most useful real-world application of quantum computers. They can make simulations of nature and the real world in a much better way. Superior computation accounts to better prediction models and forecasting. This makes quantum computing applicable for exponentially better weather forecasting and financial modeling. AI and cryptography is another aspect of the quantum computing applications. Area of use cases of the quantum computing technology is very limited now as the technology itself is at its budding stage in development. More complex and resource heavy tasks will reveal itself as the technology develops.

Quantum supremacy and current capabilities

Quantum supremacy is when a quantum computer outperforms a classical one on a given calculation. The quantum computer that Google has developed in their own research facility is the only one to have achieved this deed. It took Google's 54-qubit Sycamore processor 200 seconds to perform a calculation that would have taken the world's most powerful supercomputer 10,000 years. Microsoft, NASA and even IBM has joined in the venture for developing a fully functional quantum computer. Much more exponential development is expected to be achieved in the coming years.

Conclusion

Quantum computing is one of the most exciting innovations happening in the world of technology right now. An ideal quantum computer with 300 qubits could run more calculations in an instant than there are atoms in the universe. The best one we have right now is a 72 qbit quantum processor developed by Google and most of the applications in the real world are yet to be found out. So there indeed is a lot of room for improvement. In order for a quantum computer to work and function properly, it requires to be in a supercooled state requiring man-sized hardware which we don't see anytime fitting inside a portable computer. The truth remains that this technology is only in its primitive stage. As with any new technology in this stage, quantum computing is also getting a lot of questioning from many critiques ranging from researchers to enthusiasts. If this works the way it should, we are looking at one of the greatest innovations of our times.



Article by Faculty Members

A NEW DEEP LEARNING MODEL FOR EEG-BASED EMOTION RECOGNITION

by

Dr. B.Dhiyanesh Assistant Professor / CSE

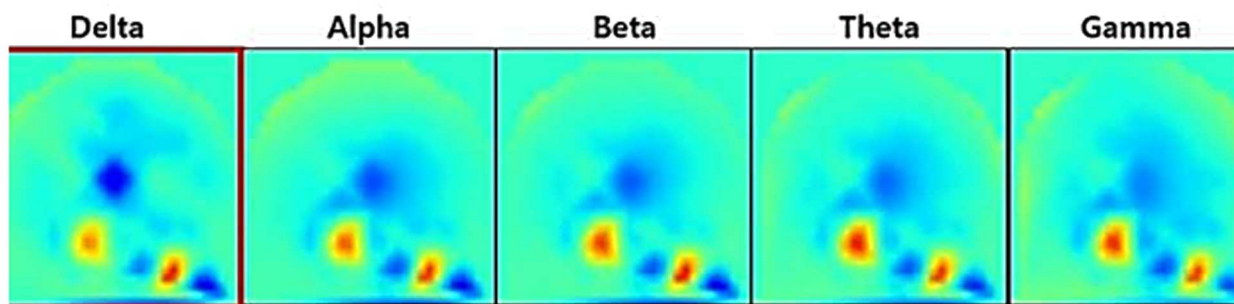
Recent advances in machine learning have enabled the development of techniques to detect and recognize human emotions. Some of these techniques work by analyzing electroencephalography (EEG) signals, which are essentially recordings of the electrical activity of the brain collected from a person's scalp.



62 Channels

(a) One sample of low-resolution EEG feature

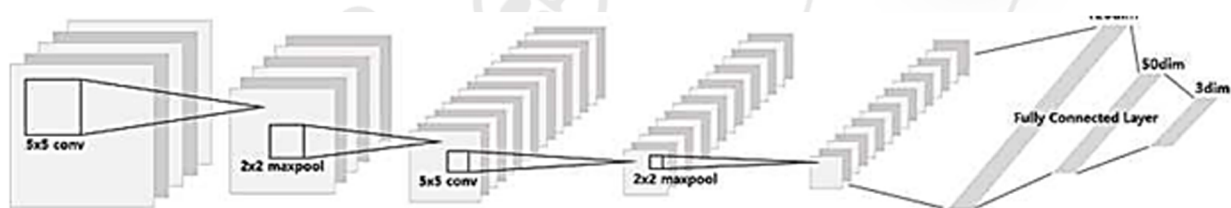
Most EEG-based emotion classification methods introduced over the past decade or so employ traditional machine learning (ML) techniques such as support vector machine (SVM) models, as these models require fewer training samples and there is still a lack of large-scale EEG datasets. Recently, however, researchers have compiled and released several new datasets containing EEG brain recordings.



5 Bands

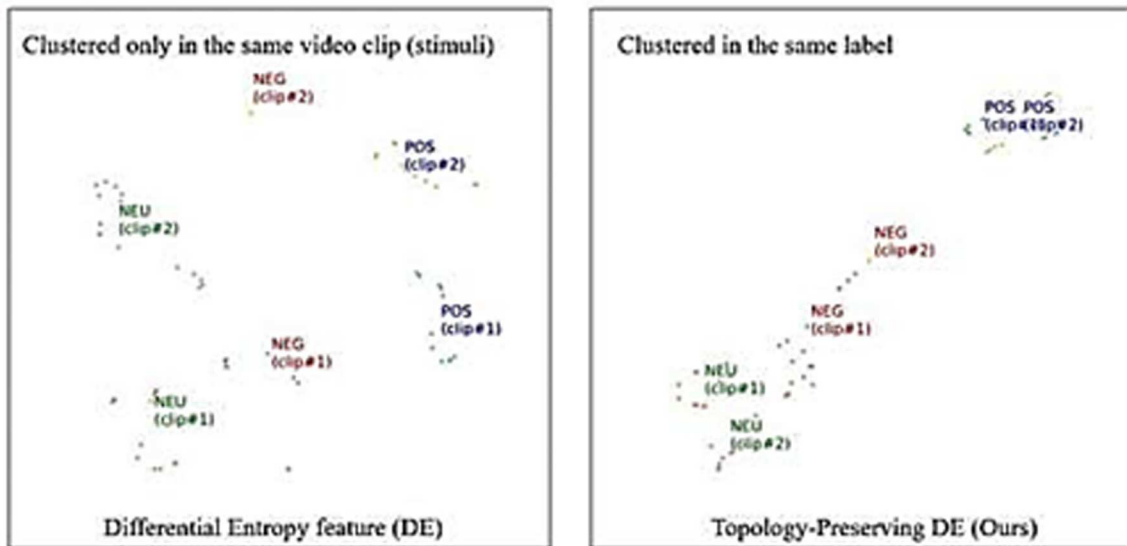
(b) Generated high-resolution EEG images

The release of these datasets opens up exciting new possibilities for EEG-based emotion recognition, as they could be used to train deep-learning models that achieve better performance than traditional ML techniques. Unfortunately, however, the low resolution of EEG signals contained in these datasets could make training deep-learning models rather difficult. **"Low-resolution problems remain an issue for EEG-based emotion classification,"** Sunhee Hwang, one of the researchers who carried out the study, told TechXplore. "We have come up with an idea to solve this problem, which involves generating high-resolution EEG images." To enhance the resolution of available EEG data, Hwang and her colleagues first generated so-called **"topology-preserving differential entropy features"** using the electrode coordinates at the time when the data was collected. Subsequently, they developed a convolutional neural network (CNN) and trained it on the updated data, teaching it to estimate three general classes of emotions (i.e., positive, neutral and negative).



(a) Convolutional Neural Network for EEG classification

"Prior methods tend to ignore the topology information of EEG features, but our method enhances the EEG representation by learning the generated high-resolution EEG images," Hwang said. **"Our method re-clusters the EEG features via the proposed CNN, which enables the effect of clustering to achieve a better representation."** The researchers trained and evaluated their approach on the SEED dataset, which contains 62-channel EEG signals. They found that their method could classify emotions with a remarkable average accuracy of 90.41 percent, outperforming other machine-learning techniques for EEG-based emotion recognition.



"If the EEG signals are recorded from different emotional clips, the original DE features cannot be clustered," Hwang added. "We also applied our method on the task of estimating a driver's vigilance to show its off-the-shelf availability."

In the future, the method proposed by Hwang and her colleagues could inform the development of new EEG-based emotion recognition tools, as it introduces a viable solution for overcoming the issues associated with the low-resolution of EEG data. The same approach could also be applied to other deep-learning models for the analysis of EEG data, even those designed for something other than classifying human emotions.

"For computer vision tasks, large-scale datasets enabled the huge success of deep-learning models for image classification, some of which have reached beyond human performance," Hwang said. "Also, complex data preprocessing is no longer necessary. In our future work, we hope to generate large-scale EEG datasets using a generated adversarial network (GAN)."

Google Classroom for Higher Education

**Prof Sudharson D,
Assistant Professor,
Department of CSE,
HICET.**

In today's changing world, students need to leave school with a set of technological skills that can help them compete in the world's job market. For teachers, there's a free fantastic resource that can help us give students those skills: Google Classroom.

Here are six benefits of this tool when used in the classroom:

1. Exposure to an Online Learning Platform

Today, many colleges require students to take at least one online class during the course of their degree work. In fact, if you get a master's degree in education, some of your coursework could be online. Unfortunately, many students have never had any experience with online education. That is why you really want to make sure to give your students as much exposure to it as possible at a young age. Google Classroom is an easy way to help students with this transition because it is super user-friendly, making it a great intro to technology.

2. Easy Access to Materials

Because everything is posted online, Google Classroom gives students access to materials no matter where they are. Gone are the days of lost rubrics or worksheets. Students who are absent can easily access classroom materials from home if necessary—this can really help save both you and your students a lot of stress in the long run.

3. Differentiation

Because you can set up many different classrooms, Google Classroom is a great tool for differentiation. If you're working on a concept in class and have groups working at two different levels, simply create two different classes for that unit. That way you can better reach out to those who are struggling with their own kind of work without making them feel bad or stupid.

This can help you give out assignments on a more individual basis and really reach out to certain students as well. You can even split everyone into groups that you think they will be able to work the best in. Google Classroom is a great, flexible way to ensure that every student gets just what they need, and you can easily delete and recreate classes as you see fit.

4. *Less Paper*

When used to run an entire class, Google Classroom can virtually get rid of paper consumption. As long as students have access to the internet, all classwork can be handled online. This means no copies and ultimately less money for your district.

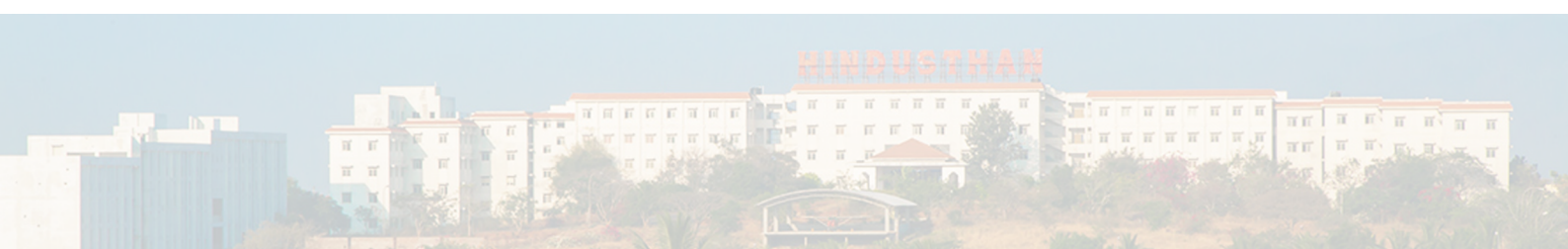
5. *No Lost Work*

Students can't lose work if they don't physically have it in their presence. Since they are usually working in Google Drive, everything saves automatically and excuses dwindle. With a few short lessons concerning how to properly use these online tools, students can experience more success getting organized.

6. *Engagement*

It's been proven time and time again that students are engaged by technology. Google Classroom can help students become and stay engaged in the learning process. If you have students answer questions in Classroom, for example, other students can comment on these answers and deepen thought for both students.

Overall, using Google Classroom is definitely worthwhile. It can save you a lot of time and energy, and can help you to better prepare your students for the future.



Google Classroom for Higher Education

**Prof Magesh D,
Assistant Professor,
Department of CSE,
HICET.**

Some Significant Effects Of Online Assessment On The Educational Sector

Online assessment is a significant technological advancement that should be involved in the education system. Conducting tests nowadays should not be stressful as technology has revolutionized the whole education system. Conducting assessments online has become easier today as there is no requirement of using the paper-and-pencil option. Exams are conducted on a computer which ultimately saves not only time but also the most important product, that is paper. These are the reasons why this online method is accepted by every educational institute which has computers and an internet connection available.

The Importance Of Quality Assessment To The Education System

Assessments are the most significant part of the education system as it gives an accurate picture to the students of where they stand. It acts as a catalyst and positive reinforcement to learners by encouraging them to perform better. Therefore, quality assessment is very important as it focuses on a targeted area with complete precision. In order for an assessment to be stated as a quality one, it must present the following characteristics:

- The content should be simple, clear and easy for candidates to understand. It should always comply with the syllabus and the specific topic taught.
- The test should have a measurable outcome; i.e. there should not be any flaws as regards the content. Moreover, it should be 100% accurate.
- The test should grasp students' interest, and that is mainly the reason why the test should be objective at all times. It should be creative and, of course, not boring for the students.

Why Do Students Find It Useful To Conduct Assessments Online?

The impact of technology on the education sector is undoubtedly beneficial. First and foremost, teaching and, in consequence, evaluating students are two actions which should not be limited within the walls of a classroom but they can be both performed anytime, anywhere with the aid of computers and the internet.

It's not surprising that the industries are gradually moving from using the traditional assessment methods to using more practical ones which are almost always towards technological solutions. These practical methods not only benefit the institutions but also students as they choose to make full use of this method right from the start when they select courses to the final stage, that of the assessment.

Research has also proven that most students are interested in going through an online assessment rather than a paper-and-pencil one. Moreover, the students are delighted when they get their results and feedback automatically immediately after the test. But still, to be fair, there is some confusion deriving from students' responses which show that even if some may prefer online testing, there are still some others who like the paper-and-pencil mode more. So, there is still a need to figure out how reliable it would be if we should incorporate online methods in teaching and evaluating, according to students' perspective.

Prompt Result After An Examination Relieves Students' Anxiety

It has been noticed that students experience stress and anxiety after the examination while waiting for the result. But with the online examination, this is not the case as the results are being immediately distributed, which relieves students' stress and anxiety.

Instant Feedback Supports The Formative Assessment Method

Feedback is more effective for a student or for an individual when it is given immediately after their task is complete. This not only helps the student to analyze their performance level but helps them to take better steps to the optimization of the result. The student can strategize their study plan and put more effort into a particular topic. Also, an individual is able to know beforehand which topic they should be more focused on, as well. And this is the so-called principle of the formative assessment.

Conducting An Examination Anytime, Anywhere Is Beneficial To The Students

Scheduling an examination is important. Nowadays, no matter where you are, the time and the place are not barriers since conducting or participating in an online exam has eliminated all these restrictions. You can take an exam either from your phone or your tablet.

Fun And Interactive

Students find it attractive when there are multimedia incorporated, such as videos or recordings, in the examination as they highly engage students in both learning and assessment. Visual and auditory learners are more focused on content that supports multimedia than content which is presented in plain text and long sentences.

Taking Exams In A Comfortable Environment Is Key

The classroom is not always designed to facilitate learning in a comfortable way, therefore taking exams in a classroom is not the best option oftentimes. There may be great obstacles to be met during an examination process, such as hard chairs, harsh light, and students being sited too close to one another. The noisy environment of the classroom takes the focus away, distracting students who are never able to concentrate on their task as their creativity and their flow are often interrupted.

Beneficial To Students With Special Needs

People with special needs can also experience the benefit of taking tests and being assessed online. Useful methods have been developed; for example, students can simply touch the screen for the answer instead of writing it. Speech to text is also another great option and a great solution to people facing difficulties in essay writing.

Conclusion

With tremendous changes in the educational sector, the use of online assessment has become more popular and widely adopted. But in the end, it totally depends on you to decide what kind of assessment you want to opt for; be it an online or a paper-and-pencil one.

Department Related Information

1.Seminar on "Guidelines for Abroad Education"

A Seminar on "**Guidelines for Abroad Education**" was conducted on the 13th of JUL 2019. It was inaugurated by **Dr.S.Shankar**, Head Of the Department. The main objective of the seminar was about the opportunities available for higher studies in abroad countries like US, UK, New Zealand, Australia and Canada.



A party of around 158 students from second year CSE have benefited through this program.



The event was organized by **Mr Praveen**, Junior Manager and his team, YAxis Consultancy.

2.Seminar on "Attributes of Overseas Education"

A Seminar on "**Attributes of Overseas Education**" was conducted on the 26th of JUL 2019. A party of around 159 students from CSE have benefited through this program.



The event was organized by **Mr Dinesh**, Overseas Education Manager, IDP. It was inaugurated by **Dr.S.Shankar**, Head Of the Department.



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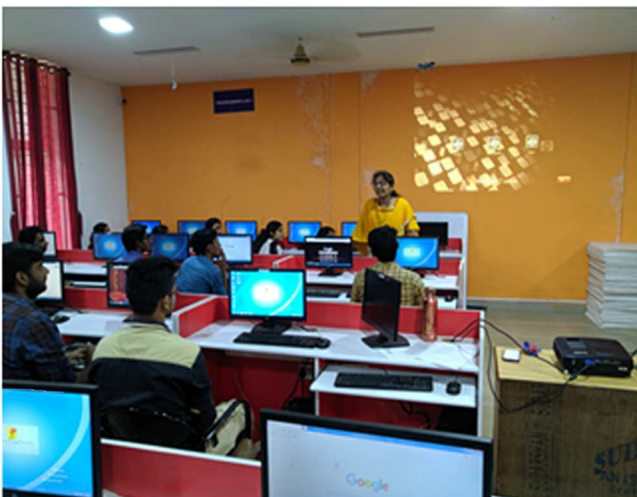


3. Guest Lecture on “Online Compilation and Coding Practices

Guest Lecture on “**Online Compilation and Coding Practices**” was conducted on the 3rd of AUG 2019. It was inaugurated by **Dr.S.Shankar**, Head Of the Department.



which was felicitated by **Ms Kalpana** Senior Research Analyst, and team from Amphisoft. This enabled our third year CSE bootcamp students to understand better about online coding aspects.



4.Seminar on Internet of Things

A Seminar on “**Internet of Things**” was conducted on the 7th of SEP 2019. A party of around 60 students from CSE have benefited through this program.



The event was organized by **Ms Kavitha**, Senior Manager, Bepozitive. It was inaugurated by **Dr.S.Shankar**, Head Of the Department.



5. One day workshop on "Recent Trends in Healthcare Industry : Machine Learning and IOT Based Solutions"

One day workshop on **"Recent Trends in Healthcare Industry : Machine Learning and IOT Based Solutions"** was conducted on the 28th of SEP 2019. It was inaugurated by **Dr.S.Shankar**, Head Of the Department.



A party of 50+ students were benefited by workshop in which Mr Sabarinathlal, CEO, Respro Labs, Chennai, Mr Maheswaran Practice Head, Guvi, Chennai and Pragith Sasikumar from Techvolt, Coimbatore have consented to be the Chief Guest.



6. Two days workshop on Cloud based Machine Learning for IOT devices

Two Days workshop on Cloud based Machine Learning for IOT devices in association with Pantech ProEd which was hosted by the Department of CSE on 16.08.2019 and 17.08.2019.



The event was organized by **Mr Sudalai**, Academic Relations Manager, Pantech ProEd.



Visit of Experts

SNO	Name of the Event	Date	Resource Person	Govt Agencies Sponsor/ Company/ Management
1.	Guest Lecture on Guidelines for abroad education	13.07.2019	Mr Praveen, Junior Manager and his team, YAxis Consultancy	Y-Axis
2.	Guest Lecture on Attributes of overseas education	26.07.2019	Mr Dinesh, Overseas Education Manager, IDP	IDP
3.	Guest Lecture on Online Compilation and Coding Practices	03.08.2019	Dr Kalpana, Senior Research Analyst, Amphisoft.	Amphisoft
4.	One day Seminar on Internet of Things	07.09.2019	Ms Kavitha, Senior Manager, Bepozitive	Be +ve
5.	One day Seminar on Higher Education	21.09.2019	Mr Subramaniam, Director and Head, South India Region, Time.	T.I.M.E
6.	Guest Lecture on Urban Mobility Challenges and Smart Solutions	28.07.2018	Ms Lena, Student Recruitment Head, TUM, German.	TUM Asia University
7.	National Level Seminar on Recent Trends in Health Care Industry : Machine Learning and IOT Based Solutions	28.09.2019	Mr. Shabarinath Premalal – Founder, CEO, Respro Labs, Chennai- 600078 Mr. Sasikumar. S, Embedded Developer, Technovolt Software Pvt Ltd, Coimbatore-641011. Mr. S. Maheswaran, Practice Head, Guvi Geek Network Pvt Ltd, Chennai.	CSIR
8.	Two Days workshop on Cloud based Machine Learning for IOT devices	16.08.2019 & 17.08.2019	Mr Sudalai, Academic Relations Manager, Pantech ProEd.	Pantech ProEd



Students Participation In Important Events Outside College

S.No.	Name	Event	Venue	Prize Details
1	Akshaya Devi.S	GALILEO HACKATHON	PES University,Bangalore	Participated
2	Akshaya Devi.S	MEAN STACK-Mongo DB,Angular and NodeJs	Mepco Schenk Engineering College	Participated
3	Akshaya Devi.S	Hack & Knock	Dr.N.G.P Institute of Technology	Participated
4	B.Kanagavel	Library Data Analysis Using Hadoop-MINI Project	u.n.i.q Technologies	Completed
5	Jeganathan.P.V	Hack & Knock	Dr.N.G.P Institute of Technology	Won FIRST Prize
6	Gokulraja.T.S	MEAN STACK-Mongo DB,Angular and NodeJs	Mepco Schenk Engineering College	Participated
7	Jeganathan.P.V	Thinkahack-RPA based Hackathon	KGISL campus	Participated
8	Ahamed Fazil Niyaz.V	Android Tutorial-MINI Project	u.n.i.q Technologies	Completed
9	S.Hemalatha	Deep learning	PSG College of Technology	Participated
10	S.Hemalatha	Advanced Python	Pantech	Participated
11	Akshin Aeavind	Application of Wireless Data Communication using 3D IC Technology	Hindusthan College of Engineering and Technology	Participated
12	V.Karthika	Cloud Computing	Code Bind Technologies	Participated
13	M.Abilaash	Gaming and Security	Wikitechy	Winner(Record)
14	Chandraprakash.S	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
15	V.P.Deepak	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
16	J.Anushree	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
17	T.Abinaya	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
18	S.A.S.Karthick	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
19	Arjun.S.Nair	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated
20	K.A.Anees	Building Applications on Cloud	Hindusthan College of Engineering and Technology	Participated



Participation by Faculty members

S. NO.	FACULTY NAME	NAME OF PAPER / CONFERENCE / SEMINAR / WORKSHOP / FDP	DURATION	NATURE OF INVOLVEMENT
1	Dr.S.Shankar	Two Days workshop on Cloud Based Machine Learning for IOT devices	16th and 17th August 2019	Convenor
		CSIR Sponsored Seminar Recent Trends in Healthcare- Machine Learning and IOT Based Solutions	28 th September 2019	
		CSIR Sponsored Seminar on Smart Farming Techniques	December 12-13, 2019	
		CSIR Sponsored Seminar on IOT and Cloud for Healthcare	December 19-20, 2019	



S. NO.	FACULTY NAME	NAME OF PAPER / CONFERENCE / SEMINAR / WORKSHOP / FDP	DURATION	HOSTING COLLEGE / INSTITUTION
1	Dr.S.Shankar	Conclave on Future Skills	31.10.2019	Bharathiar University & UTL Technologies.
2	Mr. D. Satheesh Kumar	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		Workshop on "Building Applications on Cloud"	14.09.2019	Cloud Bull & Hindusthan College of Engineering and Technology
		CSIR Sponsored National level Seminar on "Recent trends in Health care Industry : Machine learning & IOT based solutions"	28.09.2019	Hindusthan College of Engineering and Technology
		AICTE Sponsored Two Week FDP on "Deep Learning in Bio-Medical Applications for IOT"	04.11.2019 to 17.11.2019	Hindusthan College of Engineering and Technology
3	Dr.I. Jasmine Selvakumari Jeya	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
4	Mr.D.Magesh	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
5	Mr.G.Sakthi	IEI Sponsored Three days FDP on "Theory of Computation"	06.06.2019 to 08.06.2019	Hindusthan College of Engineering and Technology
		Industry Conclave and Hands on Workshop on Deep Learning	09.08.2019 10.08.2019	PSG College of Technology

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S. NO.	FACULTY NAME	NAME OF PAPER / CONFERENCE / SEMINAR / WORKSHOP / FDP	DURATION	HOSTING COLLEGE / INSTITUTION
6	Dr.S.Shankar	Question Paper Scrutinizer for Semester End theory Examinations - Nov/Dec 2019	02.11.2019	KIT-Kalaignarkarunanidhi Institute of Technology
		Session Chair for "Deep learning Models" in 2 Week FDP on "Deep Learning in Bio-Medical Applications for IoT	07.11.2019	Hindusthan College of Engineering and Technology
		Doctoral Committee Meeting	15.11.2019	SVS College of Engineering, Coimbatore
7	Dr.I. Jasmine Selvakumari Jeya	Doctoral Committee Meeting	17.07.2019	Anna University, Chennai.
8	Ms. M. Ramya Devi	Guest Lecture on "Internet of Things"	20.08.2019	Hindusthan Institute of Technology, Coimbatore
		Guest Lecture on "Computer Networks"	31.10.2019	Rathinam Technical Campus, Coimbatore
9	Mr. T. K. P. Rajagopal	Keynote Speech on "Cognitive versus Machine Learning modeling strategies"	04.10.2019 05.10.2019	International Conference on "Multidisciplinary Innovations and Research" (ICMIR'19), Assumption University of Thailand.
		Session Chair for International Conference on "Multidisciplinary Innovations and Research" (ICMIR'19)	04.10.2019 05.10.2019	Assumption University of Thailand.
		Paper Presentation on "An Efficient Dynamic load balancing algorithm using Deep Machine learning technique in Cloud computing environment"	04.10.2019 05.10.2019	International Conference on "Multidisciplinary Innovations and Research" (ICMIR'19), Assumption University of Thailand.



Sports Activities

S.No.	Name	Event/Category	Organized by	Participated / Prize Won
1	Khyaati	Basket Ball	Kumaraguru Campus	Second Prize
2	Mancy Sara.M	Basket Ball	Kumaraguru Campus	Second Prize
3	Madhumitha	Basket Ball	Kumaraguru Campus	Second Prize
4	Kavitha.G.M	Basket Ball	Kumaraguru Campus	Second Prize
5	Nivetha.T	Basket Ball	Kumaraguru Campus	Second Prize
6	Kavitha.G.M	Mehandi-Hinspire	Hindustan College of Engineering and	Second Prize
7	Madhumitha.R	Basket Ball-CIT COVAI TIES	CIT-Coimbatore	Second Prize
8	Khyaati	Dance-Hinspire	Hindustan College of Engineering and	Third Prize
9	Khyaati	Basket Ball-CIT COVAI TIES	CIT-Coimbatore	Second Prize
10	Khyaati	Mad @ Maths-Science Day	Hindustan College of Engineering and	Participated
11	Khyaati	Slogan Writing-Science Day	Hindustan College of Engineering and	First Prize
12	Madhumitha.R	Dance-Hinspire	Hindustan College of Engineering and	Third Prize
13	Priyadarshini.V	Mehandi-Hinspire	Hindustan College of Engineering and	Participated
14	Priyadarshini.V	Rangoli-Hinspire	Hindustan College of Engineering and	Participated
15	Priyadarshini.V	Marathon	Allied Arts Creation	Participated





KCT - Runners
BASKETBALL



Awards and Recognition of Staffs and Students

a) ***Dr.S.Shankar - HOD/CSE, Ms.M.Uma Priya - Assistant Professor & Ms.M.Ramya Devi - Assistant Professor***, Computer Science and Engineering has successfully completed 12 weeks e-Yantra Task Based Training (TBT) conducted by IIT Bombay and sponsored by MHRD, Government of India.

b) Awarded with NPTEL Certificate of Appreciation for instrumental role as **SPOC** from **SWAYAM,NPTEL Local Chapter, IIT, Madras**.

c) ***Ms.M.Revathi, Assistant Professor***, Computer Science and Engineering, Completed NPTEL Certification on “Data Base Management System” 8 Week Course from February-April 2019 with a score of **90% Elite+Gold (2% Topper)**.

d) ***Dr.I.Jasmine Selvakumari Jeya, Associate Professor***, Completed Computer Science and Engineering, NPTEL Certification on “Data Base Management System” 8 Week Course from February-April 2019 with a score of **84% Elite + Silver**.

e) ***Ms.M.Ramya Devi, Assistant Professor***, Computer Science and Engineering, Completed NPTEL Certification on “Programming in C++” 8 Week Course from July - November 2018 with a score of **77% Elite + Silver**.

Prestigious Award received by the Faculty and Department

a) Department of Computer Science and Engineering, CSI-HICET STUDENT BRANCH received the “**Best Accredited Student Branch Award**” from the Computer Society of India (CSI) for the academic year **2018-2019**.



Certificate of Status as an AWS Academy Member Institution



DR.S.Shankar has attended **BRIDGE'19**
by
ICT Academy @NEW DELHI



Achievements in International Level events by the faculty

a) **Mr. T. K. P. Rajagopal, Assistant Professor**, Computer Science and Engineering, is going to present the paper on “An Efficient Dynamic Load Balancing Algorithm Using Deep Machine Learning Technique in Cloud Computing Environment” in the International Conference on “Multidisciplinary Innovations and Research”(ICMIR'19) to be held on 04th and 05th October 2019 at Hall of fame, Assumption University, Suvarnabhumi Campus, Amphoe Bang Sao Thong, Chang Wat Samut Prakan 10540, Thailand.

Fund Fetched from various Government Agencies details:

a) **Dr.S.Shankar, HOD/CSE**, Computer Science and Engineering received Rs.5,74,000/- for the project title of “Augmented Reality (AR) using Natural User Interface (NUI) Based Physical Therapy Rehabilitation Framework with Mobile Decision Support System (MDSS)” from All India Council for Technical Education (AICTE) - Research Promotion Scheme on 18.03.2019.

b) **Dr.S.Shankar, HOD/CSE & Dr.I.Jasmine Selvakumari Jeya, Associate Professor**, Computer Science and Engineering received Rs.5,00,000/- for the “Fourth International Conference on Green, Intelligent Computing and Communication Systems (ICGICCS'20)” from All India Council for Technical Education (AICTE) - Grant for Organizing Conference Scheme on 18.07.2019.



Educational Excellence Award - 2019

Organized by

Society of Scientific Research (SSR)

In association with

**Alumni Association of Indian Engineers (AAOIE) &
Assumption University of Thailand**

Certificate of Award



Prof. T.K.P. Rajagopal

M.E., M.Tech.,(Ph.D),,

for the Award title of

*Excellent Scientific Researcher and
Excellent Academic Administrator*

To your contributions in the field of Engineering & Technology
(Technical Qualification, Professional Membership, Technical Experience
and Sustained Accomplishment in Teaching, Professional Activities,
Technical projects, Development, Engineering Education initiatives)

**held on 04th and 05th October 2019
at Assumption University of Thailand**



c) **Dr.S.J.K Jagadeesh Kumar, Vice Principal, Ms.J.Jeyaselvi, Ms.M.Uma Priya, Assistant Professors**, Computer Science and Engineering received Rs.25,000/- from Council of Scientific and Industrial Research(CSIR) for one day National Level Seminar on “Recent Trends in Healthcare Industry: Machine Learning & IOT Based Solutions” on September 28, 2019.

d) **Dr.I.Jasmine Selvakumari Jeya, Associate Professor and Ms M.Revathi, Assistant Professor**, Computer Science and Engineering received Rs.50,000/- from Council of Scientific and Industrial Research(CSIR)for the “Two Days National Seminar On “Research Trends On IOT With Cloud Based Cancer Diagnosis System For Healthcare” during December 19-20, 2020.

e) **Ms.A.Sherin, Ms.G.Gaayathri, Assistant Professors**, Computer Science and Engineering received Rs.15,000/- from Council of Scientific and Industrial Research(CSIR)for the “Two Days National Level Seminar On Rural Transformation by Revolutionizing the Future of Agriculture with Smart Farming Techniques Using Industrial Internet of Things, Artificial Intelligence and Big Data Analytics” during December 12-13, 2019.

f) **Mr.T.K.P.Rajagopal, Assistant Professor**, Computer Science and Engineering received Rs.1,60,000/-from Unnat Bharat Abhiyan (UBA)-MHRD for Village Adoption Scheme.



g) **Ms.M.Uma Priya, Assistant Professor**, Computer Science and Engineering received Rs.25,000/- from Council of Scientific and Industrial Research for one day National Level Seminar on “Recent Trends in Healthcare Industry: Machine Learning & IOT Based Solutions” on September 28, 2019.

S. NO.	FACULTY NAME	NAME OF PAPER / CONFERENCE / SEMINAR / WORKSHOP / FDP	DURATION	HOSTING COLLEGE / INSTITUTION
1	Dr.I. Jasmine Selvakumari Jeya	Reviewer for the manuscript entitled " IMAGE AND BRAIN SIGNAL PROCESSING BASED DROWSINESS DETECTING AND ALARMING SYSTEM"	23.08.2019	International Journal of Science and Technology, GRDS Publishing
		PC member of BOOK_ESL_2019 in Easy Chair	23.09.2019	EasyChair Ltd, England.
2	Dr.S.Shankar	Guest Editor for JoVE Methods Collection	06.09.2019	JoVE, Cambridge, MA 02140
3	Mr. D. Sudharson	Reviewer for the manuscript entitled "Artificial neural network models for coronary artery disease" in	31.10.2019	Current Bioinformatics Journal



Student Achievements:

- a) **Mr. Frazer Robert, Mr. P V Jeganathan, Mr. T S Gokul Raja**, III Year Computer Science and Engineering, won I Prize Rs 20,000/- in 24 Hrs National Level “Hack and Knock 1.0” Product Development Contest organized by Dr. N G P Institute of Technology, Coimbatore on 8th & 9th February 2019.
- b) **Mr. Chandra Prakash S, Mr. T S Gokul Raja & Mr. P V Jeganathan, III Year Computer Science and Engineering, received** offer letter (3 lacs per annum) from KGISL, Coimbatore for their outstanding participation in a hackathon organized by KGISL.
- c) **Saminathan A**, IV Year Computer Science and Engineering, Completed NPTEL Certification on “Big Data and computing” 8 Week Course from February-April 2019 with a score of 66% Elite.
- d) **Satheesh Ravichandran**, IV Year Computer Science and Engineering, Completed NPTEL Certification on “Programming, Data Structures and Algorithms using Python” 8 Week Course from February-April 2019 with a score of 66% Elite.
- e) **Fathima Beema John K**, II Year Computer Science and Engineering, Completed NPTEL Certification on “Data Base Management System” 8 Week Course from February-April 2019 with a score of 53%.
- f) **Kanishkar K**, II Year Computer Science and Engineering, Completed NPTEL Certification on “Data Base Management System” 8 Week Course from February-April 2019 with a score of 58%.



S.NO	NAME	DEPARTMENT	ROLE	COURSE NAME	FINAL SCORE	CERTIFICATE TYPE
1	NAVIN REDDY N	Computer Science and Engineering	Student	Programming, Data Structures And Algorithms Using Python	67	Elite
2	NITHISH KUMAR R	Computer Science and Engineering	Student	Ethical Hacking	69	Elite
3	RAJ KUMAR G	Computer Science and Engineering	Student	Programming, Data Structures And Algorithms Using Python	72	Elite
4	KHYAATI	Computer Science and Engineering	Student	Programming, Data Structures And Algorithms Using Python	68	Elite
5	SUDHA R	Computer Science and Engineering	Student	Data Base Management System	59	Successfully Completed
6	PAVITHRA. K	Computer Science and Engineering	Student	Data Base Management System	74	Elite
7	ROSHINI A	Computer Science and Engineering	Student	Data Base Management System	67	Elite
8	LOKESH B	Computer Science and Engineering	Student	Data Base Management System	58	Successfully Completed
9	FATHIMA BEEMA JOHN K	Computer Science and Engineering	Student	Ethical Hacking	70	Elite
10	R.DINESH	Computer Science and Engineering	Student	Cloud Computing	56	Successfully Completed



List of Students Completed NPTEL Online Course in Jul-Dec, 2019

S.NO	NAME	DEPARTMENT	ROLE	COURSE NAME	FINAL SCORE	CERTIFICATE TYPE
1	NAVIN REDDY N	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	67	Elite
2	NITHISH KUMAR R	Computer Science and Engineering	Student	Ethical Hacking	69	Elite
3	RAJ KUMAR G	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	72	Elite
4	KHYAATI	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	68	Elite
5	SUDHA R	Computer Science and Engineering	Student	Data BaseManagement System	59	Successfully Completed
6	PAVITHRA. K	Computer Science and Engineering	Student	Data BaseManagement System	74	Elite
7	ROSHINI A	Computer Science and Engineering	Student	Data BaseManagement System	67	Elite
8	LOKESH B	Computer Science and Engineering	Student	Data BaseManagement System	58	Successfully Completed
9	FATHIMA BEEMA JOHN K	Computer Science and Engineering	Student	Ethical Hacking	70	Elite
10	R.DINESH	Computer Science and Engineering	Student	CloudComputing	56	Successfully Completed



11	DR I JASMINE SELVAKUMARI JEYA	Computer Science and Engineering	Faculty	CloudComputing	75	Elite
12	M REVATHI	Computer Science and Engineering	Faculty	CloudComputing	87	Elite + Silver (1% Topper)
13	GOKILA ANAND	Computer Science and Engineering	Student	Theory ofComputation	46	Successfully Completed
14	H.MOHAMED FAHADHUSAIN	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	No Certificate	
15	NITHIN K	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	No Certificate	
16	JAYA ANTONY ALBERT L	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	No Certificate	
17	MAHADEVAN C	Computer Science and Engineering	Student	Programming,Data Structures And AlgorithmsUsing Python	No Certificate	
18	PRABU K	Computer Science and Engineering	Student	Ethical Hacking	No Certificate	
19	ANURAAG V K	Computer Science and Engineering	Student	Ethical Hacking	No Certificate	
20	VARSNIS	Computer Science and Engineering	Student	An IntroductionTo ProgrammingThrough C++	No Certificate	



S.NO	NAME	ROLE	TITLE	PARTICIPATED/PRIZE WON
1	Ramya Devi M	Faculty	(TBT-2019) in e-Yantra Lab Setup Initiative (eLSI)	Grade B
2	Shankar S	Faculty		Grade B
3	Uma Priya M	Faculty		Grade B
4	Veerasamy B	Faculty		Grade B
5	Rajagopal T K P	Faculty	Cognitive Versus Machine Learning Modeling Strategies	Certificate of Appreciation on "ICMIR'19
6	Rajagopal T K P	Faculty	Paper on "An Efficient Dynamic Load Balancing Algorithms Using Deep Machine Learning Technique in Cloud Computing Environment	Certificate of Appreciation on "ICMIR'19
7	Jegenathan P V	Student	"Hack & Knock 1.0"	1st prize
8	Frazer Robert	Student	"Hack & Knock 1.0"	1st prize
9	Gokul Raja T S	Student	"Hack & Knock 1.0"	1st prize



CYBERLINES

2019-2020

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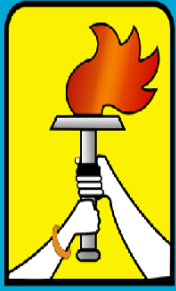


CYBERLINES

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H E C T

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

CYBERLINES

VOLUME 12

**2019 – 2020
(EVEN)**

EDITOR'S DESK

From the Chief Editor Desk...



It gives me immense pleasure to bring out the issue of our magazine “CyberLines” as the name itself symbolize it marks the whole time line of our department of Computer Science and Engineering.

The main motto of bringing out this magazine is to show the surrounding, our achievement, work and contribution to the society for every academic year. The magazine reveals all the hard work of our students, their extracurricular activities, and we complement their hard work under the winners and toppers in this magazine, and I am quite happy in sharing these details with the Heads of the Departments, our well wishers and all others who are bonded to CSE, through this magazine.

This magazine is also for us to look back to the past, the path we traveled together as a unit. The supports we got from our colleagues and subordinates. It reflects our complete journey of the past year. It gives us time to think about our beloved passed out students, and wish them all success in the corporate life they are undergoing now. The current volume has come out well, and the work from our students has made it more colorful. We hope our forthcoming volume will be enriched more delightful incidents, ideas and thoughts to share.

With Regards

Dr. S. Shankar

Head of the Department



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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2. DEPT PEOs, DEPT PSOs
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CYBERLINES

Computer has become the part of our life. The work of a computer engineering is not only restricted to the field of IT, their job continues even outside that, like Automobiles and many other fields. The department of Computer Science and Engineering is linked and synchronized with all other department of Engineering. Hence the world moves ahead along with us!

OUR MISSION

To prepare the students to become computer science professionals at par with the current trends technology and to mould them to attain excellent leadership qualities thereby making them component in the hardware, software and research arena.

OUR VISION

To provide an excellence for individuals to develop technologically superior, socially conscious and nationally responsible citizens.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PEOs

PROGRAM EDUCATIONAL OBJECTIVES

PEO1: To acquire knowledge in the latest technologies and innovations and an ability to identify, analyze and solve problems in computer engineering.

PEO2: To be capable of modelling, designing, implementing and verifying a computing system to meet specified requirements for the benefit of society.

PEO3: To possess critical thinking, communication skills, teamwork, leadership skills and ethical behaviour necessary to function productively and professionally.

PSOs

PROGRAM SPECIFIC OUTCOME

PSO1: An ability to understand, apply, design and develop principles in the areas related to algorithms, Software engineering, Networking and database concepts for computer-based systems in solving engineering problems.

PSO2: An ability to employ modern computer languages environments and platforms to excel in their careers.



Articles by Students

7 Ways to Retain More of Every Book You Read

Santhosh K V

IV CSE C

Department of CSE

HICET

There are many benefits to reading more books, but perhaps my favorite is this: A good book can give you a new way to interpret your past experiences.

Whenever you learn a new mental model or idea, it's like the “software” in your brain gets updated. Suddenly, you can run all of your old data points through a new program. You can learn new lessons from old moments. As Patrick O'Shaughnessy says, “Reading changes the past.”

Of course, this is only true if you internalize and remember insights from the books you read.



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Knowledge will only compound if it is retained. In other words, what matters is not simply reading more books, but getting more out of each book you read. Gaining knowledge is not the only reason to read, of course. Reading for pleasure or entertainment can be a wonderful use of time, but this article is about reading to learn. With that in mind, I'd like to share some of the best reading comprehension strategies I've found.

1. Quit More Books
2. Choose Books You Can Use Instantly
3. Create Searchable Notes
4. Combine Knowledge Trees
5. Write a Short Summary
6. Surround the Topic
7. Read It Twice



For a More Creative Brain Follow These 5 Steps

Alen Lawrence

III CSE A

Department of CSE

HICET

Nearly all great ideas follow a similar creative process and this article explains how this process works. Understanding this is important because creative thinking is one of the most useful skills you can possess. Nearly every problem you face in work and in life can benefit from innovative solutions, lateral thinking, and creative ideas. Anyone can learn to be creative by using these five steps. That's not to say being creative is easy. Uncovering your creative genius requires courage and tons of practice.

A Problem in Need of a Creative Solution

A Flash of Insight

The 5 Stages of the Creative Process

The Idea in Practice

The Creative Process in Short



Articles by Faculty Members

Creating effective classroom displays – encouraging belonging and ownership

Dr. B. DHIYANESH

Associate Professor

Department of CSE

HICET

‘Having aspects of the classroom that reflect the individual pupils is important – some of their work on the wall, names/pictures on trays and pegs, etc. Also something that maybe they have created together that makes the classroom instantly recognisable – not just a soulless box,’ the document reads. ‘This is all supported by good quality, child-centred furniture and equipment. Lots of teachers do these things, and our evidence shows that it really helps.’

The *Clever Classrooms* study further reiterates that elements like trays and pegs which are personalised are an important factor in helping to form an individual’s identify and sense of self-worth. Showcasing shared display tables were also found to be important.

‘Classrooms that feature the products of students’ intellectual engagements, projects, displays, and

construction are also found to promote greater participation and involvement in the learning process,' the paper reads.

Classroom wall displays often include materials made by teachers to reflect current learning topics and priorities. Barrett says it's important to keep a balance of representing student work as well as your own at all times.

'Of course teachers need to put up topic-related display material that can aid independent work amongst the pupils, but this has to be kept current as the syllabus moves forward,' he says.

In the report, *The impact of classroom design on pupils' learning: Final results of a holistic, multi-level analysis*, evidence-based suggestions for the design of display materials are outlined.

schools, but the whole notion of the benefits of an intermediate level of ambient stimulation seems to be linked to the human condition. So it may be achieved in different ways, but in principle a moderate level of ambient stimulation can be expected to be beneficial in secondary schools. So too should engendering a sense of spatial ownership.'



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Internet use, video games and students' academic achievement

J. Prakash

Assistant Professor

Department of CSE

HICET

Video gaming and non-academic internet use can improve student achievement, but moderation and timing are key, according to a new Australian study.

Researchers from the University of Southern Queensland and UNSW Sydney looked at the association between internet use other than for schoolwork and electronic gaming, and the NAPLAN performance (National Assessment Program – Literacy and Numeracy) of 1704 11- to 17-year-olds.

They found that students who played one to two hours of video games a day on weekdays were 13 per cent more likely to get higher reading scores than those who didn't play at all. Gaming on weekends was also positively associated with academic performance.

Department Related Information

1. Seminar on "Digital Marketing"

One day Seminar on Digital Marketing was conducted on 4th of January 2020. It was inaugurated by Dr.S.Shankar, Head of the Department.



Digital marketing is the component of marketing that utilizes internet and online based digital technologies such as desktop computers, mobile phones and other digital media and platforms to promote products and services.

A party of around 158 students from second year CSE have benefited through this program.



2. Seminar on "Professional Communication"

A Seminar on "Professional Communication" was conducted on the 25th of January 2020. A party of around 159 students from CSE have benefited through this program.



The event was organized by Mr

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Prabhu, Executive Manager,
Careershapers, Coimbatore,
Coimbatore,

It was inaugurated by Dr.S.Shankar,
Head of the Department.



3. Seminar on "Cyber Security"

One day Seminar on Cyber Security was conducted on 1st of February 2020. It was inaugurated by Dr.S.Shankar, Head of the Department.

Cyber security or information technology security are the techniques of protecting computers, networks, programs and data from unauthorized access or attacks that are aimed for exploitation.

A party of around 110 students from CSE have benefited through this program. The

event was organized Mr Vasanth and Mr Arun Lal, Technology and Learning Associates, GTech, Chennai.

4. Seminar on "Computer Graphics and Virtual Reality"

A Seminar on "Computer Graphics and Virtual Reality " was conducted on the 12th of February 2020. A party of around 140 students from CSE have benefited through this program.



The event was organized by Dr Syed Ali Fathima, Associate Professor, Kumaraguru College of Technology, Coimbatore.

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5. Seminar on "SAP and RPA"

One day Seminar on SAP and RPA was conducted on 29th of February 2020. It was inaugurated by Dr.S.Shankar, Head of the Department.

SAP stands for Systems Applications and Products in Data Processing. SAP system consists of a number of fully integrated modules, which covers virtually every aspect of business management.



A party of around 110 students from CSE have benefited through this program. The event was organized by Mr.Irfan Ahamed, Executive Director, Atomious consulting, UAE.

6. International Conference on GREEN, INTELLIGENT COMPUTING AND COMMUNICATION SYSTEMS - ICGICCS'20

Two days International Conference on GREEN, INTELLIGENT COMPUTING AND COMMUNICATION SYSTEMS - ICGICCS'20

was organized on 05-06, March 2020. The chief guest for the day was **Dr. A Sivathanu Pillai** (PhD, D.Sc), DRDO Dr.DS Kothari Chair,

Research & Innovation Centre, IIT Madras.

Dr.S.Annadurai, Advisor of Hindusthan Group of Institutions presided over the inaugural programme.

Dr.S.J.K.Jagadeesh Kumar, Vice Principal felicitated the Conference and addressed the researchers and mentioned that innovation is the differentiator and that makes a researcher distinct and **Dr. N. Rajkumar**, Professor and Head, Department of Information Technology

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welcomed the gathering and he mentioned about improving efficiency and productivity in all spheres of engineering. **Dr.S.Shankar**, Professor and Head of Department of CSE, in his address, lauded the conference theme and mentioned the relevance of Green and Intelligent technologies in today's context. **Dr.A.R. Jayasudha**, Professor and Head of the Department of MCA, delivered vote of thanks after the inaugural session

Dr. A Sivathanu Pillai (DRDO) Dr.DS Kothari Chair, Research & Innovation Centre,IIT Madras addressing the gathering



Valedictory function along with the award ceremony was held on 06th March 2020 headed by **Dr.T.Kannadasan**, Principal, Hindusthan College of Engineering and Technology. He addressed the gathering and congratulated all the prize winners.



Visits of Experts

SNO	Name of the Event	Date	Resource Person	Govt Agencies Sponsor/ Company/ Management
1.	Digital Marketing	04.01.2020	Mr Vignesh Kumar, CEO, Thiranz Tech Solutions, Coimbatore.	Company
2.	Professional Communication	25.01.2020	Mr Prabhu, Executive Manager, Careershapers, Coimbatore.	Company
3.	Cyber Security	01.02.2020	Mr Vasanth and Mr Arun Lal, Technology and Learning Associates, GTech, Chennai.	Company
4.	Computer Graphics and Virtual Reality	12.02.2020	Dr Syed Ali Fathima, Associate Professor, Kumaraguru College of Technology, Coimbatore.	College
5.	SAP and RPA	29.02.2020	Mr.Irfan Ahamed, Executive Director, Atominoconsulting, UAE.	Company
6.	Coding Competition	28.04.2020	Hackerrank	Company
7.	Data Analytics	29.04.2020	Mr. Chirag Jain, Software Engineer, India.	Company
8.	Elearning	30.04.2020	Mr Jaishankar, Technical Lead, Codetantra, Chennai	Company
9.	Digital Marketing	01.05.2020	Mr Vignesh Kumar, CEO, Thiranz Tech Solutions, Coimbatore.	Company
10.	Webinar-Office 365	02.05.2020	Mr. Babu, CEO, LogEsys, Bangalore	Company
11.	Webinar on Machine Learning	26.05.2020	Mr Ahmed, Chief Learning Officer, Imarticus, India.	Company
12.	Webinar on Full Stack Development	17.07.2020	Mr.Lokesh Keyan,Senior Software developer,Global Payments,Jacksonville,USA	Company



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Visits of Experts

SNO	Name of the Event	Date	Resource Person	Govt Agencies Sponsor/ Company/ Management
13.	Smart India Hackathon 2020	01.08.2020 to 03.08.2020	Dr.P.B.Kotur, Head of Talent Transformation, Wipro Limited Dr.P.Balamurugan, Chief Learning Officer, Amphisoft Technologies	Govt
14.	Webinar on Digital tools for Government of School Teachers	07.08.2020	Mr.Buvaneshwaran Start Career Bengaluru - 560069	Company

Students Participation In important Events Outside College

S.NO	Name	Event	Venue	Prize Details
1	Aravinth Vimal P.K.	Workshop - Internet of Things (IOT)	NIT Trichy	Participated
2	Aravinth Vimal P.K.	Workshop - AVANTAA - AR & VR	Sri Krishna College of Engineering and Technology	Participated
3	Aravinth Vimal P.K.	Workshop - TECHUTSAV - Data Science	Thiagarajar College of Engineering and Technology	Participated
4	Aravinth Vimal P.K.	E-Workshop - 3D Visual Effects (VFX)	Jerusalem College of Engineering	Participated
5	S.Hemalatha	webinar:machine learning using python	pantech solutions	Participated
6	S.Hemalatha	online course python with pandas	ayya nadar janaki ammal college	Participated
7	S.Hemalatha	webinar:modern approach to software development	hindusthan college of engineering and technology	Participated
8	S.Hemalatha	webinar:star python programming	star certification	Participated
9	S.Hemalatha	technical E-Quiz	mount zion college of engineering and technology	Participated
10	S.Hemalatha	online panel discussion:"reimagining the pandemic:WOMEN in management & challenges"	kcg college of technology	Participated
11	S.Hemalatha	talk on 'effective preparation for civil servie(IAS/IPS/IFS/IRS) exams'	psg institute of tehnology and applied research	Participated
12	S.Hemalatha	webinar:open door ethical hacking	csi college of engineering	Participated

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13	S.Hemalatha	webinar:mind hunter-decoding threads using mind	csi college of engineering	Participated
14	S.Hemalatha	webinar:building a successful career path	hindusthan college of engineering and technology	Participated
15	S.Hemalatha	kalam program for IP literacy and awareness	ministry of education innovation cell	Participated
16	Aravinth Vimal P.K.	Certification - Full Stack Development	Hindusthan College of Engineering and Technology	Participated
17	Aravinth Vimal P.K.	Certification - AUTOCAD for Beginners	Tagore College of Engineering	Participated
18	Aravinth Vimal P.K.	Certification - Getting started with Python	Clever Programmer	Participated
19	Aravinth Vimal P.K.	Certification - Data Science club Inauguration	Hindusthan College of Engineering and Technology	Participated
20	Aravinth Vimal P.K.	Certification - Python Data Structures	Coursera	Participated
21	Aravinth Vimal P.K.	Certification - Database Management Essentials	Coursera	Participated
22	Aravinth Vimal P.K.	Certification - Data Structures	Coursera	Participated
23	Aravinth Vimal P.K.	Certification - Computer Architecture	Coursera	Participated
24	Aravinth Vimal P.K.	Certification - Possitive Psycology	Coursera	Participated
25	Aravinth Vimal P.K.	Webinar - Redhat Linux	Hindusthan College of Engineering and Technology	Participated

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Participation of Faculty members in events outside college

S. NO.	FACULTY NAME	NAME OF CONFERENCE / SEMINAR / WORKSHOP / FDP/STTP	DURATION	HOSTING COLLEGE / INSTITUTION
1	Dr. S. Shankar	Webinar on Getting Job Ready for Post Covid era	21 st May, 2020	MC Graw Hill
		Webinar on The Economics of the Pandemic	28 th May 2020	MC Graw Hill
		FDP on Robotics Process Automation and its allied machine learning techniques	10.05.2020	Vels Institute of Science and Technology
2	Dr.I. Jasmine Selvakumari Jea	FDP on Ruby Programming	11.05.2020 to 12.05.2020	Vellore Institute of Technology, Chennai
		FDP on Augmented Reality/ Virtual Reality	25.05.2020 to 29.05.2020	IIT Patna
		FDP on Internet of Things	31.05.2020 to 04.06.2020	The School of Computer and Systems Sciences, JNU, New Delhi, AICTE - ATAL
		Webinar on App Development	2.05.2020	Karpagam College of Engineering, Coimbatore.
		Webinar on Web Development using Java Script	30.04.2020	Karpagam College of Engineering, Coimbatore.
		Webinar on Machine Learning Algorithms, Applications and trends	10.05.2020	SHASUN Jain College for Women

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	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
	NPTEL Course on "Introduction to internet of things"	,Duration: 12 Weeks (Jan 2020 to April 2020)	Swayam-NPTEL
	You tube live session on iOS App Development	10.05.2020	Karpagam College of Engineering, Coimbatore.
	Online Non Credit Course on Artificial intelligence for data analytics	04.05.2020 to 06.05.2020	Sri Ramakrishna College of Engineering
	Webinar on Recent Trends in Bio Medical Engineering	26.04.2020 to 30.04.2020	Dr.NGP Institute of Technology
	(Online Webinar Series)-	24.04.2020 - 29.04.2020	Excel College of Engineering
	Webinar on "Block Chain Technology"-	04.05.2020	VLB Janakiammal College of Arts and Science,
	Webinar on- The Future of Recruitment",	23.05.2020	Sri Eshwar College of Engineering " Technology
	Webinar on " Design the Thinking"-	22.05.2020	Sri Eshwar College of Engineering
	Webinar on Expanding Scope of Robotics"-	21.05.2020	Sri Eshwar College of Engineering "



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		Webinar on " Data Science for Engineers"-	13.05.2020	Sri Eshwar College of Engineering "
		Webinar on "Effective Methods of Writing a Quality Research Paper"-	28.05.2020	KCG College of Technology
		Webinar on"Industrial IoT using LoRaWAN Technology"	-25.05.2020 - 27.05.2020	Saraswathi Yadav Engineering College
		Webinar on "Being a Digital Entrepreneur",	29.05.2020	Scad College of Engineering
		Webinar on"Artificial Intelligence for Enterprise use "	29.05.2020	Gnanamani College of Technology



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	Webinar on , " "Basics of C++ Programming"	30.05.2020	Hindusthan College of Arts and Science
	Webinar on "Employment and Entrepreneurship before and after COVID-19(Lockdown)"	29.05.2020	RVS College of Engineering and Technology
	Workshop on "Digital Marketing",	30.05.2020	Sri Ramakrishna College of Arts & Science
	"National-Level Workshop on "Image Classification using MATLAB"	24.05.2020	.JAIN University
	Workshop on NAAC Assessment and Accreditation" ,	28.05.2020 - 30.05.2020	.GATES Institute of Technology "
	Workshop on "MERN Stack" ,	30.05.2020 - 31.05.2020	Velammal College of Engineering
	FDP on Effective Project Proposal Writing",	08.05.2020 - 09.05.2020	Velammal College of Engineering, "
	FDP on "Recent Trends in Bio-Medical Engineering",	26.04.2020 - 30.04.2020	Dr. N.G.P Institute of Technology
	FDP on "Theory of Computation" ,	18.05.2020 - 22.05.2020	Velammal College of Engineering
	FDP on "Trends in Teaching and Learning" ,	26.05.2020 - 29.05.2020	Bishop Ambrose College
	FDP on "Internet of Things (IoT)" NIT, Nagaland.,	18.05.2020 - 22.05.2020	AICTE Training And Learning (ATAL) Academy
	FDP on "Deep Neural Networks and Expert Systems",	25.05.2020 - 29.05.2020	P.S.R. Engineering College

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		FDP on " Python Programming and Machine Learning Techniques",	18.05.2020 - 22.05.2020	K.S.R College of Engineering
		FDP on "Machine Learning Techniques",	25.05.2020 - 29.05.2020	K.S.R College of Engineering
		FDP on " Data Structures (CS8391)",	25.05.2020 - 29.05.2020	Velammal College of Engineering
3	Mr. D. Satheesh Kumar	Webinar On Bigdata And Datascience	31st May 2020	Pan Tech Solution
		Webinar On Building Deep Learning Applications For Bigdata	28th May 2020	PanTech Solutions
		Webinar On Artificial Intelligence For Employee Attribution	29th May 2020	Adhiyamaan College Of Engineering
		Webinar On Deep Learning With Neural Networks	30th May 2020	Shivaji RaoKadam Institute Of Technology And Management In Association With Pan Tech Learning
		Webinar On Environment And Sustainable Development Organised	23. 5 .2020	Francis XAVIER Engineering College
		Webinar On Gesture Recognition Based Air Writing Using Opencv	23rd May 2020	Thyagaraja College Chennai
		Webinar On Machine Learning For Health Care Application	21st May 2020	Shreyas Institute Of Engineering And Technology
		Webinar on Advanced health Conscious fast charging Schemes and Battery management systems	14.05.2020	Karpagam Institute of Tehcnology
		Webinar on How the Agri and IOT get Connected	19.05.2020	Mohammed Sathak College of Engineering



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		Webinar on AI and Machine Learning	14.05.2020	Sri Eswar College of Engineering
		Webinar on Block Chain Basics	18.05.2020	Sri Eswar College of Engineering
		Webinar on Future of Communication Engineering	20.05.2020	Sri Eswar College of Engineering
		Webinar on Cyber Security	15.05.2020	Sri Eswar College of Engineering
		Webinar on Data Science and Engineering	13.05.2020	Sri Eswar College of Engineering
		Webinar on Design and thinking	22.05.2020	Sri Eswar College of Engineering
		Webinar on Digital Circuit design using SCILAB	14.05.2020	vaagdevi college of Engineering, Telengana

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		FDP on Python	05.05.2020 to 09.05.2020	Vellore Institute of Technology, Chennai
		FDP on Robotics Process Automation	04.05.2020 to 06.05.2020	Jeppiar Institute of Technology
		Webinar on IOT	04.05.2020	IETE Mumbai
		Webinar on Image Processing	02.05.2020	MOUNT SION COLLEGE OF ENGINEERING AND TECHNOLOGY
		Webinar on Industry 4.0	19.05.2020	Hindusthan College of Engineering and Technology
		Webinar on Machine Learning using python	9.05.2020	MVSP KBT COE NASHIK, Maharashtra
		Faculty Awareness Programme on NBA Accreditation Process	18.5.2020	SNJB College of Engineering
		Python With Pandas	13.05.2020	Ayya Nadar Janakiammal College
		Webinar on Virtual Reality	14.05.2020	SRM College & Pantech Solutions
		Webinar on Trends and Technologies on VLSI	17.05.2020	Hindusthan College of Engineering and Technology
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
4	Mr.D.Magesh	webinar titled "Cyber Security "	on 15th may	Sri Eshwar College of

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			2020	Engineering, Coimbatore.
		webinar titled " Advanced health conscious fast charging schemes and battery management system for autonomous E- Mobility" Coimbatore.	14th May 2020	Karpagam Institute of Technology,
		Webinar titled" Data Science for Engineers"	14th may 2020	Sri Eshwar College of Engineering, Coimbatore.
		webinar titled"Industry 4.0"	19th may 2020	Sri Eshwar College of Engineering, Coimbatore.
		webinar titled" Design the thinking"	22nd may 2020	Sri Eshwar College of Engineering, Coimbatore.
		webinar titled"Introduction to Artificial Intelligence and Machine Learning"	29th may 2020	Park College of Engineering and Technology.
		FDP on "Theory of computation"	18-05-2020 to 22-05-2020	Velammal Engineering College, Chennai.
5	Mr. R. Jayaraj	Webinar on Introduction to Non Functional Testing and Performance Assurance Engineering.	13.05.2020	Hindusthan College of Engineering and Technology
		National level seminar on cyber security for web applications and embedded systems-	8.01.2020	Jansons institute of technology
6	Ms.Sarojini Yarramsetti	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
7	Dr. B. Dhiyanesh	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		FDP on Latex	17.04.2020 to 14.04.2020	Gopalan College of Engineering and Management
		FDP on Python	5.05.2020 to	Vellore Institute of



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			9.05.2020	Technology
		Webinar on AI and Machine Learning	14.5.2020	Hindusthan College of Engineering and Technology
		Webinar on Block Chain Basics	18.5.2020	Sri Eswar College of Engineering
		Webinar on How to conduct evidence-based research	25.4.2020	Elsevier
		Webinar on Cyber Security	15.5.2020	Sri Eswar College of Engineering
		Webinar on data science for engineers	13.5.2020	Sri Eswar College of Engineering
		Webinar on Design and thinking	22.5.2020	Sri Eswar College of Engineering
		Non Credit Course on Mobile Application development using Android and iOS	27.04.2020 to 29.04.2020	Sri Ramakrishna College of Engineering
		Webinar on Decoding datascience for decision makers	19.5.2020	CleverInsight
		Webinar on expanding scope of Robotics	21.5.2020	Sri Eswar College of Engineering
		Faculty Awareness Program on "NBA Accreditation Process"	18.5.2020	Hindusthan College of Engineering and Technology
		FDP on "Effective and Instructive Research"	4.5.2020	Sona College of Engineering
		Webinar on Future of Communication Engineering	20.5.2020	Sri Eswar College of Engineering
		India First Leadership Talk webinar	9.5.2020	MHRD's Innovation Cell
		Webinar on Industry 4.0	19.5.2020	Sri Eswar College of Engineering
		webinar on "Machine Learning and its Applications"	9.5.2020	SVCET, Chittoor

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	Webinar on How to produce highly visible research: Useful tips for researchers	26.4.2020	elsevier
	FDP on research funding projects and IPR	07.05.2020 to 10.05.2020	KC College of engineering and Management Studies. Thane
	Webinar on How to Secure Funding	25.4.2020	Elsevier
	FDP on Data Science research opportunities	21-05-2020.	Sri Ramakrishna College of Arts and Science
	Online Webinar Series April 2020	24.04.2020 to 29.04.2020	Excel Engineering College, Komarapalayam
	FDP on emerging technology - robotics process automation	04.05.2020 to 06.05.2020	Jeppiar Institute of Technology
	Webinar on "Environment and Sustainable development"	23-May-20	Francis Xavier Engineering College, Tiruneveli.
	Webinar on "Technology – The Future of Recruitment"	23 May 2020 .	Organized by Sri Eshwar College of Engineering, Coimbatore
	Webinar on "The Role of Database Administration and the Concept of Disaster Recovery"	28 May 2020	PANIMALAR INSTITUTE OF TECHNOLOGY, Chennai.
	Webinar on "Introduction to Artificial Intelligence and Machine Learning"	29-May-20	Park College of Engineering and Technology, Coimbatore.
	Webinar on "Machine Learning and Deep Learning"	29-May-20	K.Ramakrishnan College of Engineering, Tiruchirappalli.
	Workshop on "Image Classification using MATLAB"	24 May 2020	JAIN University.
	Workshop on "Bevywise IoT Simulation"	31-May-20	JAIN University.
	FDP on "Data Science Using Python"	18th – 22nd May 2020	Jeppiaar Institute of Technology, Chennai.

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		FDP on "Principles of Management"	18th – 22nd May 2020	Animalar Institute of Technology, Chennai.
		FDP on "Block Chain Technologies"	19th – 23rd May 2020	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, Kakinada.
		FDP on "Data Science – Research Opportunities"	21-May-20	Sri Ramakrishna College of Arts and Science, Coimbatore
		FDP on "Cyber Security & Malware Analysis"	26th & 27 May 2020	CMR Engineering College, Hyderabad.
		Attended FDP on "Blockchain Technology"	30th & 31 May 2020	Madanapalle Institute of Technology & Science, Chittoor.
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019- 13.12.2019	Hindusthan College of Engineering and Technology
		Augmented Reality (AR)/ Virtual Reality	01-05-2020 to 05-05-2020	AICTE Training and Learning (ATAL) Academy
		National Level Seminar on "Cyber Security for Web Applications and Embedded System	8.01.2020	Jansons institute of technology
		FDP on Cloud Computing	AUG to OCT	AICTE- NPTEL
		FDP on "Demystifying Network Security",	26.05.2020 to 30.05.2020	S.A Engineering College
		FDP on "Angular and Business Intelligence",	31.05.2020	St.Joseph's Institute of Technology
8	Ms. J. Ananthi	Webinar on "Angular and business intelligence"	30-31 may 2020	st.joseph's institute of technology
		FDP on data science using python"	18-22 may 2020	Jeppiaar institute of



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				technology
		Webinar on "Introduction to machine learning using python"	2-5-29 may 2020	MIT art design and technology university pune school of engineering
		CSIR sponsored national seminar on adversarial deep learning threats challenges and defence mechanisms in cyberforensics-	30.11.2019	Kongu Engineering college
		National level seminar on cyber security for web applications and embedded systems-	8.01.2020	Jansons institute of technology
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		webinar on Design The Thinking	22.05.2020	Eswar college of Engineering and Technology
		webinar on Expanding Scope of Robotics	21.05.2020	Eswar college of Engineering and Technology
		webinar on Industry 4.0	19.05.2020	Eswar college of Engineering and Technology
		webinar on Cyber Security	15.05.2020	Eswar college of Engineering and Technology
		webinar on Data science for Engineers	13.05.2020	Eswar college of Engineering and Technology
		webinar on Latest Trends Career opportunities in Cyber Security and Digital Forensics	21.05.2020	Indra Priyadarshini Gandhi College of Engineering and Technology.
		Webinar on Computer vision and robotics	25th may 2020	Hindusthan College of Engineering and Technology

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		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
12	Ms.B. Reena	IEI Sponsored Three days FDP on "Theory of Computation"	06.06.2019 to 08.06.2019	Hindusthan College of Engineering and Technology
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		CSIR Sponsored National level Seminar on "Cloud based machine learning for IOT Application in Healthcare Systems"	16.10.2019	Hindusthan Institute of Technology
		Webinar titled "Virtual and Augmented Reality Applications for Manufacturing and Healthcare"	29.05.2020.	Meticulous Academy of EXcellance organized by Centre for Industry Institute Interactions, KIT
		Webinar titled "Machine Learning using Python"	09.05.2020	PANTECH SOLUTIONS
		Webinar titled "Documentation using LATEX"		Arasu College of arts and Science for Women.
13	Ms. M. Ramya Devi	IEI Sponsored Three days FDP on "Theory of Computation"	06.06.2019 to 08.06.2019	Hindusthan College of Engineering and Technology

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		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		Webinar on Expanding scope of Robotics - Webinar	21st May 2020,	Sri Eshwar College of Engineering
		Webinar on Future of Communication Engineering -	20th May 2020	Sri Eshwar College of Engineering
		Webinar on Industry 4.0	19th May 2020	Sri Eshwar College of Engineering
		Webinar on Block chain basics - ,	18th May 2020	Sri Eshwar College of Engineering
		Webinar on Cyber Security	15th May 2020	Sri Eshwar College of Engineering
		Webinar on Effective conduct of Online classes	- 8th May 2020	Sri Eshwar College of Engineering
		Webinar on 5 Days Online SkyCampus : Season 2 of Skycampus -	20th April 2020 to 24th April 2020,	ICT Academy
		Webinar on 9 Days Online SkyCampus : Season 1-Technology For Future - ,	9th April 2020 to 18th April 2020	ICT Academy
		FDP on "IoT Trends to Drive Innovation for Business and Digital Technology" - Conducted by Department of Electronics and Communication Engineering,	11.05.2020 to 15.05.2020	Hindusthan Institute of Technology, Coimbatore
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
14	Ms. G. Gaayathri	IEI Sponsored Three days FDP on "Theory of Computation"	06.06.2019 to 08.06.2019	Hindusthan College of Engineering and Technology
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology

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		CSIR Sponsored National level Seminar on "Cloud based machine learning for IOT Application in Healthcare Systems"	16.10.2019	Hindusthan Institute of Technology
15	Ms. M.Umapriya	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019- 13.12.2019	Hindusthan College of Engineering and Technology
		Online Course on python with pandas	13-05-2020	Ayya Nadar Janaki Ammal College
		Webinar on Introduction to Non Functional Testing and Performance Assurance Engineering	13-05-2020	Hindusthan College of Engineering and Technology
		Workshop on Introduction to Robotics	03-05-2019 to 04-05-2019	IIT Bombay
		Webinar on Image Processing using Python	12/5/2020	Mount Zion College of Engineering and Technology association with PANTECH
		Webinar on Machine Learning Algorithms, Applications and Trends	10/5/2020	Shri Shakarlal Sundarbai Shasun Jain College for Women
		Seminar on Recent trends on IOT with Cloud Based Cancer Diagnosis system for Healthcare	19-12-2019 & 20-12-2019	Hindusthan College of Engineering and Technology
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		ATAL online FDP on Augmented Reality (AR)/ Virtual Reality (VR)	25.05.2020 to 29.05.2020	IIT, Patna
		NPTEL Course on Internet of Things		
16	Ms.A.Sherin	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		National level seminar on Cyber security for web Applications and Embedded Systems	11.05.2020	SHASUN Jain College for Women

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		Webinar on “Star Certified DevOPS Expert”	11.05.2020	Star Certification
		Webinar on “Introduction to Non Functional Testing and Performance Assurance Engineering	13.05.2020	Hindusthan College of Engineering and Technology
		National level seminar on cyber security for web applications and embedded systems-	8.01.2020	Jansons institute of technology
		Webinar on “ Role of Big Data Analytics in IT	15.05.2020	Hindusthan College of Engineering and Technology
		FDP on TOC	18.05.2020 to 22.05.2020	Velammal Engineering College
		FDP on “ Data Analytics in R”	25.05.2020 to 29.05.2020	ATAL – AICTE,by IIIT vadodara
17	Ms.P.Divya	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		CSIR Sponsored National level Seminar on "Cloud based machine learning for IOT Application in Healthcare Systems"	16.10.2019	Hindusthan Institute of Technology
18	Ms.R.Vidhya	FDP on Software Engineering	11.06.2020 to 13.06.2020	SA Engineering College
		FDP on Data Structures	25.05.2020 to 29.05.2020	Velammal Engineering College
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		FDP on Python	05.05.2020 to 09.05.2020	Vellore Institute of Technology, chennai
		Webinar on Documentation using Latex	04.05.2020	Arasu college of Arts and Science for women
		workshop on “How to Write a Technical Research Paper”,	22.4.2020	Ahalia School of Engineering and Technology,

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		Faculty Awareness Programme for NBA and Outcome based education	2.5.2020	JSPM Narhe Technical Campus
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		Online Web series	24.04.20 to 29.04.2020	Excel Engineering College , Komarapayam
		CSIR Sponsored National level Seminar on "Cloud based machine learning for IOT Application in Healthcare Systems"	16.10.2019	Hindusthan Institute of Technology
19	Ms. Gomathy	FDP on Python	05.05.2020 to 09.05.2020	Vellore Institute of Technology, Chennai
		FDP on Data Structures	25.05.2020 to 29.05.2020	Velammal Engineering College
		Online Webinar Series April 2020	24.04.2020 to 29.04.2020	Excel Engineering College , Komarapayam
		Webinar on Image Processing using Python	12.05.2020	Mount Zion College of Engineering and Technology association with PANTECH
		Online Course on python with pandas	13.05.2020	Ayya Nadar Janakiammal College
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
20	Ms.S.Sowmika	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology

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		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		FDP on "Angular and Business Intelligence"	30-31 may 2020	st.joseph's institute of technology
		FDP on Data science using python"	18-22 May 2020	Jeppiaar institute of technology
		Webinar "Introduction to machine learning using python"	25-29 may 2020	MIT Art Design and Technology University Pune School of Engineering
21	Ms. S. Gokila	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		FDP on "Augmented Reality (AR)/ Virtual Reality (VR)"	01-05-2020 to 05-05-2020	AICTE Training and Learning Academy
		Online Web series	24.04.20 to 29.04.2020	Excel Engineering College , Komarapayam
		Course completion through FDP on Theory of Computation	Jul - Sep 2019	NPTTEL - AICTE / FDP through MOOCs
		Workshop on " Python Program Intermediate",	7th June 2020	Jain Faculty of Engineering and technology
		Webinar titled "User Experience and Interaction Design"	06.06.2020	K.Ramakrishna College of Engineering,Tiruchirapalli,
		Webinar on User Experience and Interaction Design ,	06.06.2020	K. ramakrishna college of Engineering

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22	Ms.N.Subasri	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		FDP on Python	05.05.2020 to 09.05.2020	Vellore Institute of Technology, Chennai
		FDP on Research, Funding Projects & IPR	07.05.2020 to 10.05.2020	K. C. College of Engineering and Management Studies and Research, Thane
		Researcher Academy with Elsevier - "How to conduct evidence-based research"	25 April, 2020	Elsevier
		Researcher Academy with Elsevier - "How to manage and publish your research data"	25 April, 2020	Elsevier
		University of Jammu - " Plan your research effectively using SCOPUS and SCIENCEDIRECT from ELSEVIER".	May 29th 2020	Elsevier
		5. days Online Webinar Series April 2020 - 1)Current Trends in Web Apps 2) Image Cryptography 3) Robotics & Automation AI and ML tools in Healthcare 4) Implications of e-learning in Traditional Learning System	24th April to 29th April 2020	EXCEL ENGINEERING COLLEGE
		"Faculty awareness program on NBA and outcome based Education (OBE)"	2-5-2020.	JSPM Narhe Technical Campus -
		The High Voltage Club - International webinar "Blockchain Demystified"	30 May, 2020	Spandan Technologies
		AICTE Training And Learning (ATAL) Academy - 5 days Online FDP on "Block chain"	11-05-2020 to 15-05-2020	AICTE Training And Learning (ATAL) Academy
		FDP on "Python" - 5 days Online	5th May-9th May 2020	Vellore Institute of Technology
		Faculty Development Program on "Research, Funding Projects & IPR "	from 7th - 10th May, 2020.	K. C. College of Engineering & Management Studies & Research, Thane (E)

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		FDP on Emerging Technology " Robotics Process Automation"	4th may -6th May 2020	Jeppiar Institute of technology
		FDP on "Data Structure"	25th May-29th May 2020	Vellamal Engineering College
		FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
3	Ms. D.Nirmala	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		Industry Conclave and Hands on Workshop on Deep Learning	09.08.2019 10.08.2019	PSG College of Technology
24	Mr.S.Bhuvanesh	FDP on "Cloud Infrastructure and Services"	12.06.2019 to 14.06.2019	Hindusthan College of Engineering and Technology
		National workshop on e-Learning and MOOC's in Higher Education	14.09.2019	Anna University, Chennai.
		Webinar on " Data Science for Engineers"	13.5.2020	Sri Eshwar College of Engineering
		Webinar on "AI- Machine Learning"	14.5.2020	Sri Eshwar College of Engineering
		Webinar on "Cyber Security"	15.5.2020	Sri Eshwar College of Engineering
		Webinar on "Block Chain Basics"	18.5.2020	Sri Eshwar College of Engineering
		Webinar on "Industry 4.0"	19.5.2020	Sri Eshwar College of Engineering
		Webinar on "Deep Learning using Python"	20.5.2020	Pantech E bytes 2020
		Webinar on "Expanding Scope of Robotics"	21.5.2020	Sri Eshwar College of Engineering
		Webinar on "Design the Thinking"	22.5.2020	Sri Eshwar College of

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				Engineering
		Webinar on " Machine Learning and Deep Learning"	29.5.2020	K.Ramakrishnan Engineering College
		Webinar on "Introduction to Artificial Intelligence and ML"		Park College of Engineering and Technology
		Webinar on " Digital Investigation and Cyber Forensics"	29.5.2020	Jawaharlal College of Engineering and Technology
		Webinar on "Blockchain Demystified"	30.5.2020	Sinhgad College of Science
25	Mr. D. Sudharson	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
26	Ms. Preethi	CSIR Sponsored Two day national level seminar on Rural Transformation by revolutionizing the future of agriculture with smart farming technique using industrial IOT, Artificial intelligence.	12.12.2019-13.12.2019	Hindusthan College of Engineering and Technology
		webinar on Cyber security	19/5/2020	Saveetha Engineering college
		webinar on Reshaping the intelligent system using computer vision	20/5/2020	Saveetha Engineering college
		webinar Deep learning using python	20/5/2020	Panimalar Institute of technology
		FDP on Machine learning and artificial intelligence	4/5/2020-6/5/2020	Andhra Loyola Institute of Engineering and Technology
		FDP on Demystifying Network security ,	26/5/2020-30/5/2020	S.A Engineering college
27	Mr. T. K. P. Rajagopal	Webinar on introduction to non functional testing and Performance Assurance Engineering	13. 5.2020	Hindustan College of engineering and technology
		Faculty awareness programme on NBA accreditation process	17 .5.2020	Hindustan College of engineering and technology



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	Webinar on pattern searching, drafting and filling	17 .5.2020	Rvs College of engineering and technology
	Webinar on. Protection physical interfacing to create sensible output in circuits for applications using mqtt and CoAP	18 .5.2020	Christ the King Engineering College Coimbatore
	Webinar on research and development and industry perspective	4.5.2020	Tamil Nadu College of engineering
	Webinar on data science for engineers	13.05. 2020	Sri Ishwar College of engineering
	Webinar on grid connected and stand alone microgrid. Design using Homer Pro	14.05. 2020	Erode Sengunthar Engineering College
	Webinar on COVID-19 exam	9.5.2020	Digital IT solutions private limited
	Webinar series on be on the boundaries reinventing Horizon's	16.05.2020to 28.05.2020	SKIT, Jaipur
	Webinar on skill gap analysis and entrepreneurship development	13.05. 2020	Tamil Nadu College of engineering
	Webinar on demystify the cloud	17.05. 2020	Sri Ishwar College of engineering
	Webinar on Smart Grade	13.05. 2020	Excel College of engineering and technology

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	Webinar on effective conduct of online classes	8.5.2020	Hindustan College of engineering and technology
	Webinar on advance health conscious fast charging schemes and battery management system for autonomous E mobility.	14.05. 2020	Karpagam Institute of Technology.
	Webinar on Artificial intelligence and machine learning	14.05. 2020	Sri Ishwar College of engineering
	Webinar series on robotic process automation	17.05. 2020	PSNA College of engineering and technology
	Webinar on an intro to full stack development	10.05. 2020	Sri Venkateswara College of engineering
	Web series program on Covid 19 virus awareness	17.05. 2020	Nature Science Foundation, Coimbatore.
	Webinar on basic concepts of data analysis	17.05. 2020 to 18.05.2020	Sun Rise Universit, AlvaR
	Webinar on research opportunities of power converters	21.05. 2020	K Rama Krishna College of Technology.
	Webinar on latest trends and career opportunities in cyber security and digital forensics	21.05. 2020	Priyadarshini Indira Gandhi College of engineering
	Webinar on future of communication engineering	20.05. 2020	Sri Ishwar College of engineering
	Webinar on numerical integration in finite element analysis	18.05. 2020	PSR Engineering College
	Webinar on how to overpower COVID with 19 challenges	20.05. 2020	PSR Engineering College
	Webinar on IOT	19.05. 2020	Mohammed Sathak Engineering College
	FDP on Ruby Programming	11.05. 2020	VELLORE Institute of Technology Chennai
	Webinar on Virtual Reality SRM,	14.05.2020	Rama Puram & Pantech Solutions



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Awards and Recognition of Staffs and Students

- Acted as a reviewer for Global Research and Development Services Publishing, Asian Journal of Probability and Statistics. (2020-21)
- Awarded with certificate of Excellence by Asian Journal of Probability and Statistics in recognition of an outstanding contribution to the quality of the journal. (2020-21)
- Acted as a reviewer for MATTER: International Journal of Science and Technology. (2020-21)
- Acted as a reviewer for International Journal of Communication Systems (2020-21)
- Received Certificate of Appreciation from Texas Instruments for fostering the ecosystem bridging Government, Academia and Industry



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