



# **BITS AND BYTES**

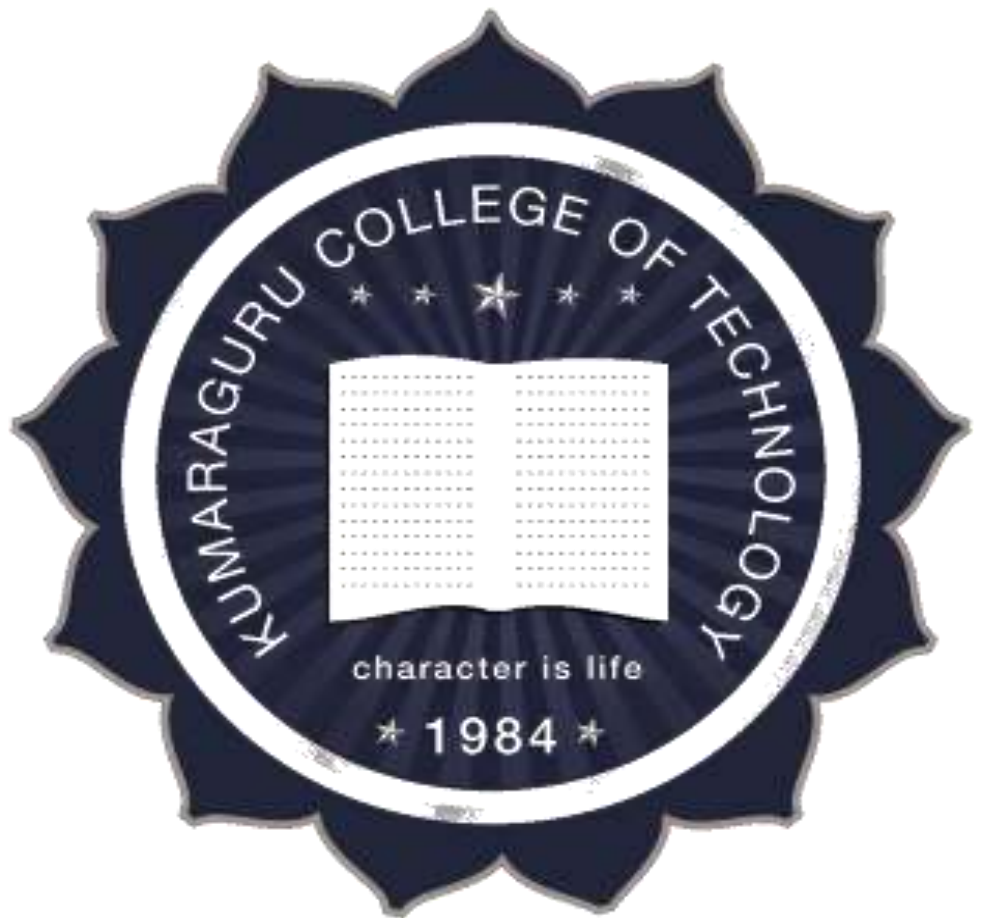
**DEPARTMENT OF COMPUTER SCIENCE**

**VOLUME 5      ISSUE 1**

**JUNE 2020 – DECEMBER 2020**

## **THIS ISSUE INCLUDES:**

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- **STUDENT PARTICIPATION**
- **STUDENT INTERSHIPS**



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## EVENTS ORGANIZED BY THE DEPARTMENT:

### NVIDIA Workshop of Fundamentals of Deep Learning for Computer Vision:

National Level One Week NVIDIA Workshop of Fundamentals of Deep Learning for Computer Vision was conducted from June 15 – 19, 2020. Dr. S. J. Syed Ali Fathima, AP/CSE was the resource person and 24 students took part in the workshop. The Workshop offered Hands on experience on the fundamentals of deep learning by training neural networks and using results to improve performance and capabilities. In this course, the participants learned the basics of deep learning by training and deploying neural networks using NVIDIA DLI GPU accelerated deep learning platform. At the end of the course, participants earned NVIDIA Course certification.



DEEP  
LEARNING  
INSTITUTE

“Computer Science is no more about computers than astronomy is about telescopes.”

— *Edsger W. Dijkstra*

### Deep Learning & AI and study opportunities in UK

Guest Lecture on Deep Learning & AI and study opportunities in UK was organized for CSE Students on 26.6.2020. Dr. Deepayan, Striling University, UK was the resource person and 90 students took part in the session. The session was based on Opportunities in AI, Address the Skill Gap - Expectations and preparedness for UK higher education and What is the value addition of a UK post-graduation degree for engineers.

### Communication Training

Dr. J. Cynthia and Mr. G. Kanagaraj conducted Communication Training from 24.7.2020 – 3.8. 2020 as a part of AICTE- SPDP fund. The resource person was Dr. Arokia Lawrence Vijay, AP, KCT. 30 students participated and enhanced their communication skills.

## Overview of different kind of projects

Dr. R. Kalaiselvi organized a guest lecture on “Overview of different kind of projects\_” for III year students on 27.8.2020. The resource person was H Thirukkumaran, CEO, Knowillence Pvt Ltd. 66 students attended the guest lecture.

## Career Growth in Industry

Dr. R. Kalaiselvi organized a guest lecture on “Career Growth in Industry” for III year students on 27.8.2020. The resource person was Mr. Sunil Vikkram, SRE-Senior Technical Manager, Thomson Reuters. 44 students attended the guest lecture.



## Computer Vision with Tensorflow

Dr. D. Chandrakala organized a Value Added Course on “Computer Vision with Tensorflow” for IV year students from August 3-8, 2020. The resource persons were Dr V Mohanraj, Data Scientist, Renault Nissan Technology and Dr. D. Chandrakala, Professor, CSE,KCT. 51 students attended the value added course.



“Software is like entropy: It is difficult to grasp, weighs nothing, and obeys the Second Law of Thermodynamics; i.e., it always increases.”  
— *Norman Augustine*

## WELCOME FRESHERS: ENLITE 2020

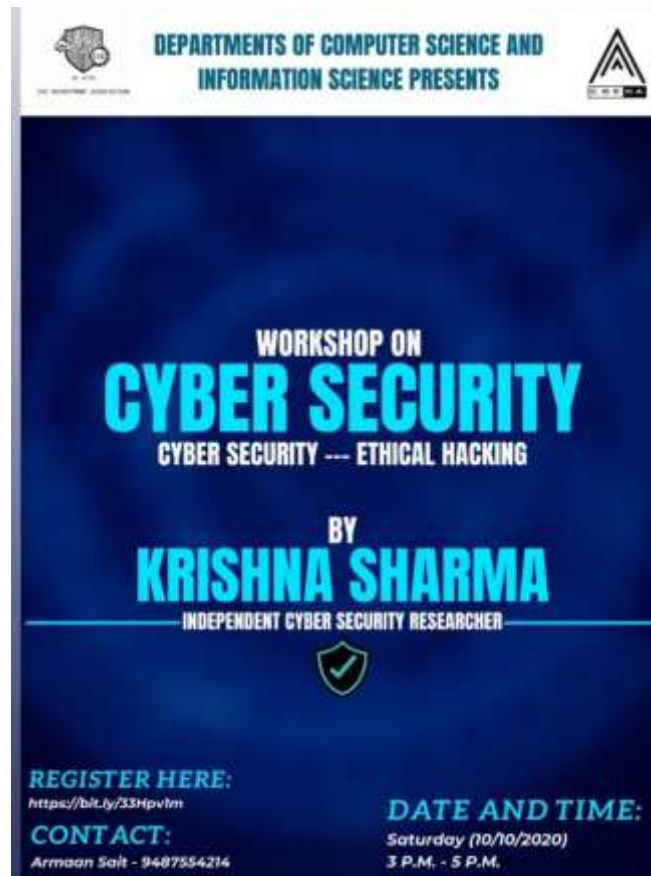
A virtual welcome event for the batch of 2020-2024 of the Department of Computer Science was conducted by the Department association. More than 70 students participated in this event thereby dreaming about their new beginnings.

The screenshot shows a Zoom meeting interface. At the top, the title reads "Welcome freshers! BATCH OF 2020-2024" with two yellow stars. Below the title, the meeting name is "2020-2024 Batch Student Immersion Program". The main content is a slide titled "Domains in the department" with a bulleted list and four colored buttons representing domains: Cyber Security (blue), Artificial Intelligence / Virtual Reality (teal), Internet of Things (green), and Data Analytics (light green). The list includes: "Student can choose among the competent domains", "Work on projects, paper presentations, patents.", "Attend training programs", and "Do certification courses in selected domains". Below the slide, a row of five video thumbnails shows participants. The bottom portion of the screenshot shows a grid of approximately 20 student video feeds in a gallery view, with a Zoom toolbar at the bottom.

"It's OK to figure out murder mysteries, but you shouldn't need to figure out code. You should be able to read it."  
— Steve McConnell

## Workshop on Cyber Security:

A virtual workshop on cyber security and ethical hacking was conducted by the Department Association of Computer Science on 10/10/2020, Saturday. The main lecturer Mr. Krishna Sharma added value the workshop by addressing the students with various lessons on cyber security and ethical hacking. More than 50 students who participated found the workshop guiding their ideas on the subject.



**"I do not fear computers. I fear lack of them."**  
— *Isaac Asimov*

## Workshop on CISCO IP Trace Tool:

Dr. J. Cynthia organized a workshop on CISCO IP Trace Tool for III year students on September 26, 2020. The resource person was Dr. Dhanabal, AP-MCA, KCT. 60 students participated in the workshop and got hands on experience to work in the networking tool.

## Webinar - Web Application Development Cycles:

Dr. S. Rajini organized a webinar "Web Application Development Cycles" for IV CSE students on November 16, 2020. The resource person was Mr.J.S.Pravin Kumar, Full Stack Developer, Athena Healthcare Technologies. 75 students participated in the webinar and got an overview about web application development.

## Copyright Guidelines for online Teaching:

Ms. D. Aswini organized a webinar on “Copyright Guidelines for online Teaching” for KCT faculty on 10.8.2020. The resource person was Mr. Gregory Manoj B.E, MBA, Senior Manager, Allsec Technologies Ltd, Chennai.



## KLDA-C Programming workshop:

Sudha organized KLDA-C Programming workshop for KCT faculty from August 17 – 28, 2020. The resource person was Dr. V. P. Sumathi, Ms. V. Sudha and Ms. D. Aswini.

## Getting into Research & Patenting:

Dr. L. Latha organized a Value Added Course on “Getting into Research & Patenting” for III year students from August 24-28, 2020. The resource persons were Dr.L.Latha, Dr.Bharathi.M, Dr.N.Rajathi, Dr.K.Paramasivam and Dr.D.Sathya from KCT. 25 students attended the value-added course.

## Frameworks and Methodologies to Maximize the Value of IT:

Dr.K.R.Baskaran and Ms.S.Nithya Roopa organized a Value Added Course on “Frameworks and Methodologies to Maximize the Value of IT” for III year students from August 17 - 21, 2020. The resource person was Dr.N.Shivakumar, Associate Director, Service Excellence, AstraZeneca India Pvt Ltd, Chennai. 40 students attended the value-added course.

**“A computer once  
beat me at chess,  
but it was no  
match for me at  
kick boxing.”  
— Emo Philips**

## Other events organized by DA:

#EngineeringForChange

# ENGINEER'S DAY 2020

Department Association of Computer Science and Information Science

## DSA Assessment Test

Let's explore the Coding

Tuesday, 15 Sept 2020 | 3 pm to 5:00 pm  
Online platform via

GeeksforGeeks and Department Association of CSE and ISE cordially invites the students to be a part of the DSA assessment test.

Contest Type :- 2 Coding Question & 10 MCQ's

The coding contest aims to bridge the gap between the students and the industry standards when it comes to DSA and will give students an idea of what it takes to succeed in the real world!

Gift Vouchers worth 2.5k will be awarded to the top 2 winners

Faculty coordinator: Kalaiselvi | [kalaiselvi.r.cse@kct.ac.in](mailto:kalaiselvi.r.cse@kct.ac.in)  
Student Coordinators: Armaan | 9487554214

Department of Computer Science and Engineering

# CONNEXIONS

Friday, 11 December 2020 | 5:00 P.M onwards  
MS Teams



Observe nothing but pictures, kill nothing but time

**Exclusively for first years (Batch 2020-24)**

ConnexionS is an online event where the participants connect technical and non-technical pictures to find the word. Be a flash to claim your name on the leaderboard

Registration link: <https://bit.ly/2Laj62U>

CONTACT: Sudharsan - 72006 23200

@kct.cse Computer Science Department [da.cse@kct.ac.in](mailto:da.cse@kct.ac.in)

"Software is a gas;  
it expands to fill its  
container."

— Nathan Myhrvold



Department of  
Computer Science  
and Engineering



## CODE MARATHON

Friday, 06 November 2020 | 4:30 pm to 6:00 pm  
Hackerrank platform



There is a hardcore coder AMONG US.

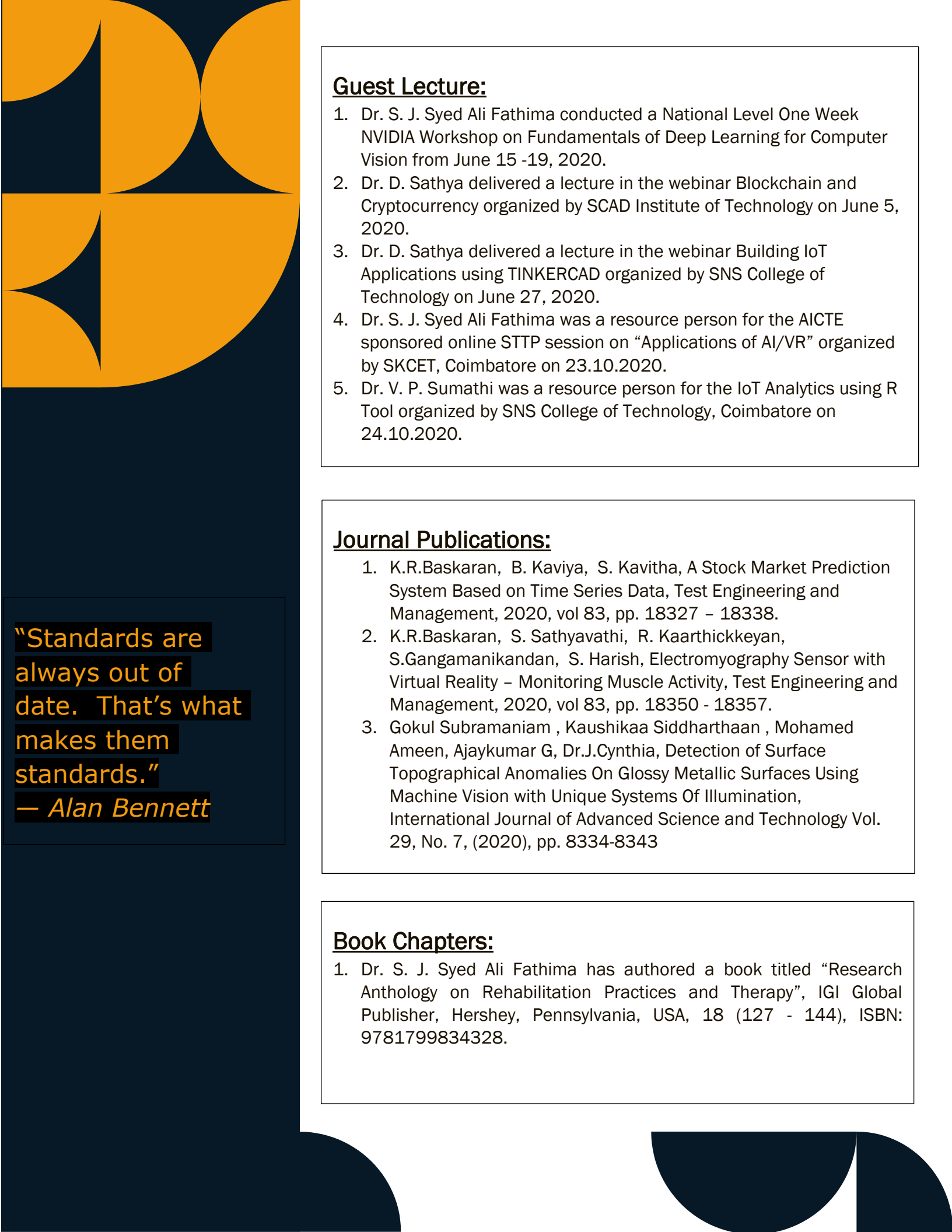
Code Marathon is an online event for all the hardcore coders and it comes packed in with a few problem statements and are expected to be solved within an hour and a half. Exclusively created problems for the competition.

Register at: [bit.do/CSCode01](https://bit.do/CSCode01)

CONTACT: Priyadarshan - 97897 89184

@kct.cse

[da.cse@kct.ac.in](mailto:da.cse@kct.ac.in)



**"Standards are always out of date. That's what makes them standards."  
— Alan Bennett**

### **Guest Lecture:**

1. Dr. S. J. Syed Ali Fathima conducted a National Level One Week NVIDIA Workshop on Fundamentals of Deep Learning for Computer Vision from June 15 -19, 2020.
2. Dr. D. Sathya delivered a lecture in the webinar Blockchain and Cryptocurrency organized by SCAD Institute of Technology on June 5, 2020.
3. Dr. D. Sathya delivered a lecture in the webinar Building IoT Applications using TINKERCAD organized by SNS College of Technology on June 27, 2020.
4. Dr. S. J. Syed Ali Fathima was a resource person for the AICTE sponsored online STTP session on "Applications of AI/VR" organized by SKCET, Coimbatore on 23.10.2020.
5. Dr. V. P. Sumathi was a resource person for the IoT Analytics using R Tool organized by SNS College of Technology, Coimbatore on 24.10.2020.

### **Journal Publications:**

1. K.R.Baskaran, B. Kaviya, S. Kavitha, A Stock Market Prediction System Based on Time Series Data, Test Engineering and Management, 2020, vol 83, pp. 18327 – 18338.
2. K.R.Baskaran, S. Sathyavathi, R. Kaarthickkeyan, S.Gangamanikandan, S. Harish, Electromyography Sensor with Virtual Reality – Monitoring Muscle Activity, Test Engineering and Management, 2020, vol 83, pp. 18350 - 18357.
3. Gokul Subramaniam , Kaushikaa Siddharthaan , Mohamed Ameen, Ajaykumar G, Dr.J.Cynthia, Detection of Surface Topographical Anomalies On Glossy Metallic Surfaces Using Machine Vision with Unique Systems Of Illumination, International Journal of Advanced Science and Technology Vol. 29, No. 7, (2020), pp. 8334-8343

### **Book Chapters:**

1. Dr. S. J. Syed Ali Fathima has authored a book titled "Research Anthology on Rehabilitation Practices and Therapy", IGI Global Publisher, Hershey, Pennsylvania, USA, 18 (127 - 144), ISBN: 9781799834328.



## **MoU with Samsung Prism:**

MoU was signed by KCT with Samsung Prism on August 8, 2020. Samsung PRISM is a student program designed to engage Professors and Students on industry relevant projects in cutting edge technologies along with R&D Team Mentors at Samsung. This gives students and Professors opportunity to work on a unique problem statement (we call it a 'work-let') which directly contributes to R&D work happening in Samsung. Some notable area of collaborations are as follows - Computer Vision, Artificial Intelligence/ Machine Learning (Voice, On-Device & Data), Speech Processing (Voice), Internet of Things, Image Processing (Vision- Camera). The duration of the MoU is for 5 years.



**"It's hardware that makes a machine fast. It's software that makes a fast machine slow."**  
— Craig Bruce

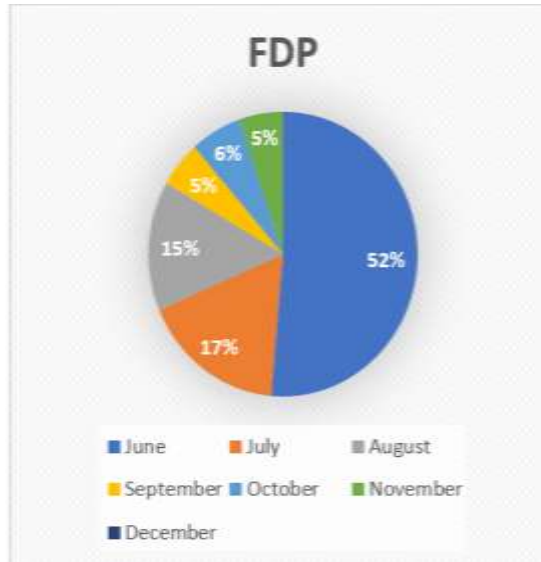
## **CONNEXIONS:**

To freshen up the young minds of KCT, we, THE DEPARTMENT ASSOCIATION OF CSE had a virtual welcome to our freshers of batch 2020-24 with the coolest and completely fun-filled event- CONNEXIONS. It is an online event where participants must connect technical and non-technical pictures to find a word. It's all about observe nothing but pictures and kill nothing but time. This event was conducted between 5 pm and 6 pm on 11<sup>th</sup> December 2020 through Microsoft teams. They were allowed to answer the questions through kahoot website. With the most energetic and excited freshers this event reached 100+ registrations and 50 + participants.

## **Guest Lecture – “Big Data and Business Analytics” :**

Guest Lecture on Big Data and Business Analytics was organized on 19.12.2020 for CSE Students by DR.K.R.Baskaran ,Mr. R. Kirubakaran, Ms. NithyaRoopa, and Mr. S. P. Siddique Ibrahim. The session expert was Mr. Sankaralingam Lakshmanaraj, Chief Advisor, Teloxis Consulting Services, Maharashtra. The students were introduced to the world of Data Analytics.

PROGRAMS ATTENDED BY FACULTY:



“Computer Science is no more about computers than astronomy is about telescopes.”  
— *Edsger W. Dijkstra*

PROGRAMS ATTENDED BY STUDENTS:



## INTERNSHIPS ATTENDED BY THE STUDENTS:

S.NO	ROLL NUMBER	NAME	NAME OF COMPANY	DURATION (in Months)	STIPEND(in Rs)
1	17BCS066	MOHANKUMAR T	Kovai.co, Coimbatore	6	NA
2	17BCS078	Arjun T	HyperVerge	6	NA
3	17BCS006	Deepika M	Kovai.co, Coimbatore	6	NA
4	17BCS031	Aiyyapan S.P	Kovai.co, Coimbatore	6	NA
5	17BCS047	Sandhiya S	Kovai.co, Coimbatore	6	NA
6	17BCS016	Pragathi R	Kovai.co, Coimbatore	6	NA
7	17BCS068	NAVEENKUMAR C	Eunimart, Hyderabad	6	12,000
8	17BCS075	DHIVYA	Temperature Detector,KCIRI	3	NA
9	17BCS123	YAMUNA	Temperature Detector,KCIRI	3	NA
10	17BCS125	SANDHIYA	Temperature Detector,KCIRI	3	NA
11	17BCS058	DEVI PRABHA A	Tuted, Kolkota	2	1,000
12	17BCS030	KIRUTHIKA J	Solar vibes,Germany	8	
13	17BCS090	Harsheni C	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
14	17BCS098	Seetha Lakshmi G	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
15	17BCS204	Monica A	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
16	17BCS019	Madhumitha R	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
17	17BCS085	Atchaya P	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
18	17BCS107	Aswini M	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
19	17BCS062	Nandhini R	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
20	17BCS060	Poovika G R	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000

“Where is the ‘any’ key?”  
— Homer Simpson, in response to the message, “Press any key”

## INTERNSHIPS ATTENDED BY THE STUDENTS:

21	17BCS034	Mohana Priya S	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
22	17BCS041	Raajshree B	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
23	17BCS102	Selvaharshini E	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
24	17BCS054	Joycema J	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
25	17BCS080	Sowbharnika K	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
26	17BCS058	DEVI PRABHA A	DRAUP-Zinnov Management Consulting Pvt Ltd, Coimbatore	3	7,000
27	17BCS083	Sivaram S	OneDPO, Bengaluru	7	15,000
28	17BCS007	Saran M	OneDPO, Bengaluru	7	15,000
29	19MCS006	Nivedha P R	Robert Bosch, Coimbatore	8	15,000
30	17BCS003	Sivaraman S	Desk 365.io, Coimbatore	5	10,000
31	17BCS081	Abinila	Multicoreware, Chennai	5	10,000

**"We have to stop optimizing for programmers and start optimizing for users."**

**— Jeff Atwood**