

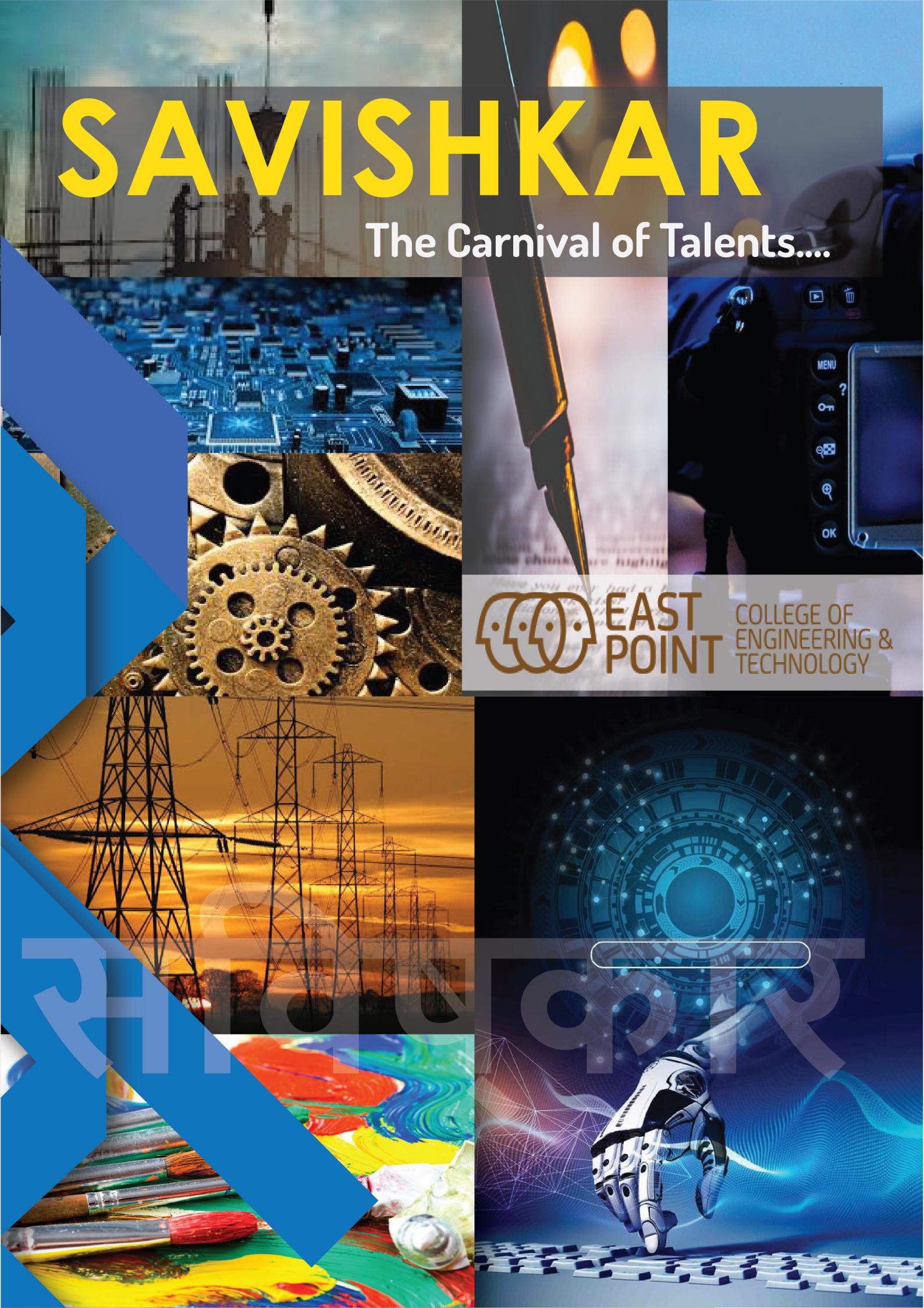
# SAVISHKAR

The Carnival of Talents....



EAST  
POINT

COLLEGE OF  
ENGINEERING &  
TECHNOLOGY





## **IN THE FOND MEMORY OF OUR BELOVED CHAIRMAN**



**Late Dr.S.M. Venkatapathi**

Late Dr. S.M.Venkatapathi was a renowned visionary, philanthropist and an educationalist.

He envisioned East Point as an institute of excellence imparting quality and affordable education to the students.

## **MESSAGE FROM CHAIRPERSON'S DESK**

My greetings to all who have been associated in bringing out the first issue of our college magazine “SAVISHAKAR” which exhibits literacy and artistic talents of students and faculties. In addition to imparting education, EAST POINT is milieu in which students learn to think, reflect and imbibe values which become distinct features of their personalities.



We at East Point provide a plethora of curricular and Extra Curricular activities to the students for their holistic development.

SAVISHAKAR, our college magazine, is a platform for our students to showcase their creative abilities hidden dreams and aspirations for writing. Our magazine aims towards bringing out the latent talent in our students through literary articles, art, photography and experiences.

I extend my warm wishes for the editorial board and contributors for their meticulous work and wish them all the very best for releasing more such magazines in the future.

**Mrs. Ramadevi Venkatapathi**

## MESSAGE FROM CEO DESK

“Education is not the filling of a pail, but the lighting of a fire.” -William Butler Yeats. Education should not be restricted just to dispense the curriculum in a mechanical fashion but must ignite minds. The college is an impeccable synonym for all of the above, which is not only imparting an education but equally focusing on all facets of the important (present and future) needs of the students.



We at East Point College of Engineering & Technology are delighted to introduce the first issue of our college magazine aptly named as “SAVISHKAR” “which mirrors the zest and energy of all students and faculty.



The College magazine is a platform for the students to express their creative pursuit which develops in them originality of thought and perception. Our students are provided with ample opportunities in both curricular and extracurricular activities. The Contents of the magazine reflect the wonderful creativity of thoughts and imagination of our EPIANS. From writing and editing to designing, there is a wide range of creative expression that has been unleashed.

We extend our congratulations to the entire editorial team and contributors for bringing out “SAVISHKAR”. May it open a new horizon for aspiring students proving that we live up to our motto “Humanity+ Education”. Wishing all success in the future endeavours.

**Mr. Pramod Gowda S.V**

**Mr. Rajiv Gowda S.V**

## MESSAGE FROM PRINCIPAL DESK



“We are here to build characters, inspire dreams, encourage creativity, instil lifelong learning and change lives forever! We are here to make a difference.”

Nurturing creativity and inspiring innovation are two of the key elements of a successful education and a college magazine is the perfect platform for both.

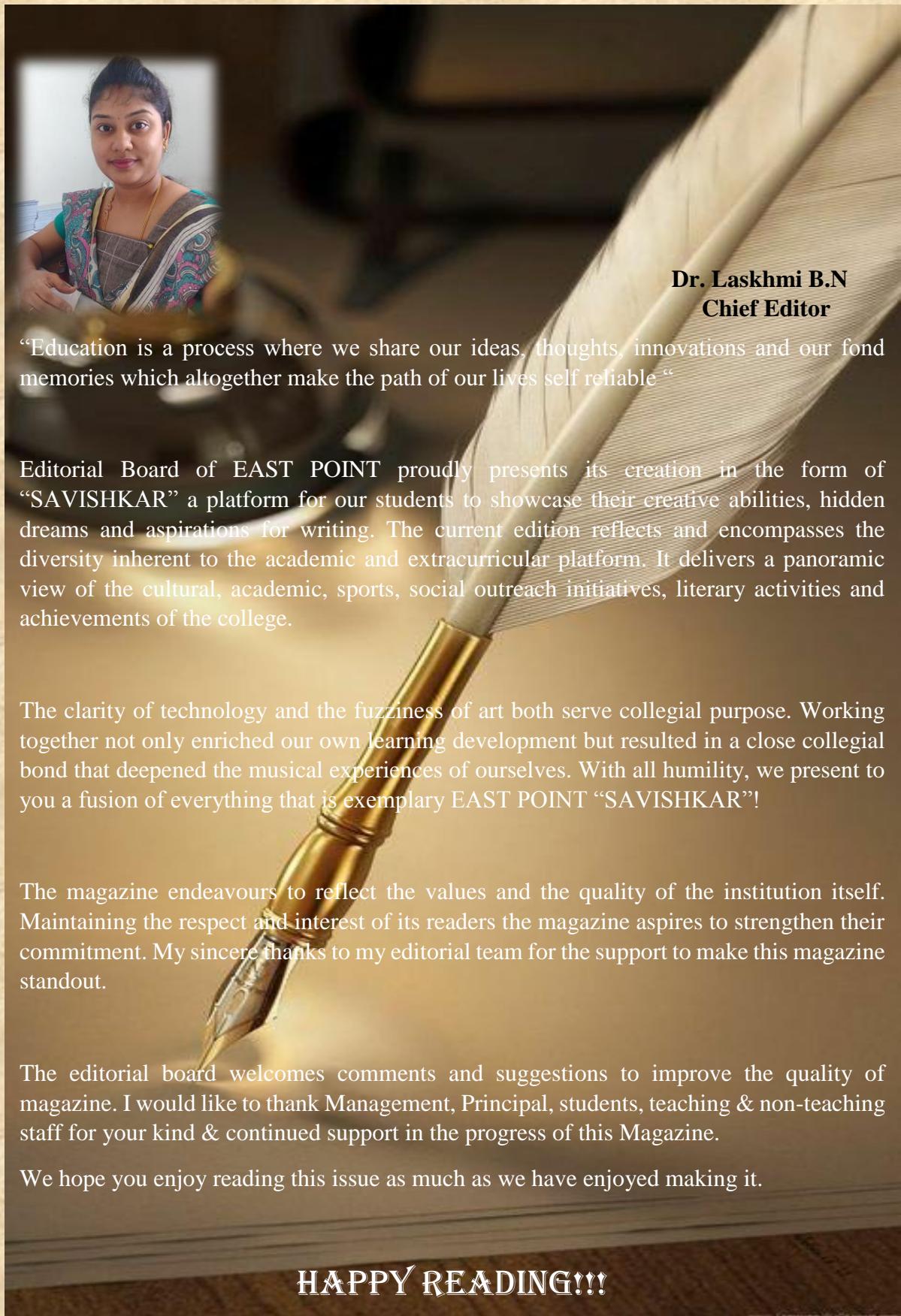
As a Principal of East Point Engineering & Technology, it gives me profound pleasure to write a few words as a prologue for our college magazine “SAVISHKAR”, which has been fuelled by the stupendous talents of students. SAVISHKAR is a balanced collection of academic, technical, non-technical and social contents. We at East Point are delighted to launch the first issue of our magazine “SAVISHKAR” and is very inspiring to watch and witness the potential of our students and faculty fraternity unfolding their layers of talents.

I hereby convey my best wishes and commend the entire editorial board as well the contributors for their rigorous and determined attempt for making this magazine inspiring and innovative. As long as our ideas are expressed and thoughts kindled, we can be sure of learning, as everything begins with an idea.

Wishing all the very best for scaling bigger success and achieving heights in the coming days.

**Dr.Prakash S**

## **MESSAGE FROM EDITORIAL BOARD**



**Dr. Laskhmi B.N  
Chief Editor**

“Education is a process where we share our ideas, thoughts, innovations and our fond memories which altogether make the path of our lives self reliable “

Editorial Board of EAST POINT proudly presents its creation in the form of “SAVISHKAR” a platform for our students to showcase their creative abilities, hidden dreams and aspirations for writing. The current edition reflects and encompasses the diversity inherent to the academic and extracurricular platform. It delivers a panoramic view of the cultural, academic, sports, social outreach initiatives, literary activities and achievements of the college.

The clarity of technology and the fuzziness of art both serve collegial purpose. Working together not only enriched our own learning development but resulted in a close collegial bond that deepened the musical experiences of ourselves. With all humility, we present to you a fusion of everything that is exemplary EAST POINT “SAVISHKAR”!

The magazine endeavours to reflect the values and the quality of the institution itself. Maintaining the respect and interest of its readers the magazine aspires to strengthen their commitment. My sincere thanks to my editorial team for the support to make this magazine standout.

The editorial board welcomes comments and suggestions to improve the quality of magazine. I would like to thank Management, Principal, students, teaching & non-teaching staff for your kind & continued support in the progress of this Magazine.

We hope you enjoy reading this issue as much as we have enjoyed making it.

**HAPPY READING!!!**

# TABLE OF CONTENTS

SEGMENTS	CONTENTS	PAGE NOS
<b>SAMPAADAK PEETIKA</b>	i ACADEMICIANS	1
	ii STUDENTS	2
<b>1 UTKRANTHI</b>  <b>2 MEDHA</b>  <b>3 ZAKYATA</b>  <b>4 AVADHAAN</b>	VIBHAJAN (DEPARTMENTS)	
	COMPUTER SCIENCE AND ENGINEERING	3-20
	INFORMATION SCIENCE AND ENGINEERING	21-32
	ELECTRONICS & COMMUNICATION ENGINEERING	33-38
	ELECTRICAL & ELECTRONICS ENGINEERING	39-48
	MECHANICAL ENGINEERING	49-54
	CIVIL ENGINEERING	55-64
	BASIC SCIENCE	65-72
<b>SAMSTHA</b>	i ACADEMIC ACTIVITIES	73-81
	ii SOCIAL AWARENESS PROGRAMS	
	iii THE CLUB	
<b>AADHAAN</b>	i INDUSTRIAL CELL INTERACTION	82-85
	ii COMPANIES FOR PLACEMENTS	
	iii STUDENTS PLACED (2019)	

# SAMPADHAK PEETIKA

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**Dept. of CSE**



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**Dept of Basic Sciences**



**Dr. Nanda Ashwin**  
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**Prof. Chamundi C**  
**Assistant Professor**  
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**Prof. Jayanthi**  
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**Dept of ECE**



**Prof. Sunitha**  
**Assistant Professor**  
**Dept of EEE**



**Prof. Dinesh Kumar**  
**Assistant Professor**  
**Dept of Mechanical Engg**



**Prof. Chinchu Lakshmi Das**  
**Assistant Professor**  
**Dept of Civil Engg**

## STUDENTS CO-ORDINATORS



**Hemanth**  
1<sup>st</sup>, ME



**Emmanuel**  
1<sup>st</sup>, ISE



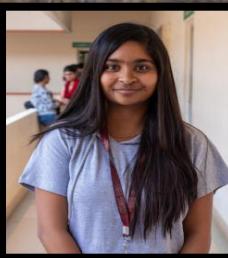
**Thanuja**  
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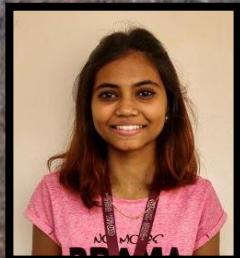
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**J Prarthana**  
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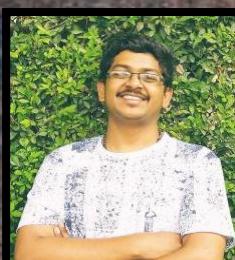
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**Swarna**  
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**Dhaanya**  
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**Brilya**  
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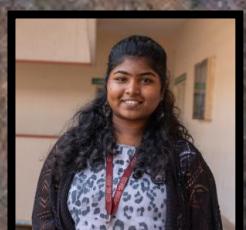
**Rahul**  
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**Athul Sunil**  
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**Simon Pierce**  
7<sup>th</sup> EEE



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**Vishweshver J**  
7<sup>th</sup> ME



**Ashwini**  
7<sup>th</sup>, Civil Engg.



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7<sup>th</sup>, Civil Engg.



**Dharesh**  
5<sup>th</sup>, Civil Engg.



**Arpitha**  
5<sup>th</sup>, CSE.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



FROM LEFT TO RIGHT  
→

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
<b><u>Row 1</u></b>					
1.	Mrs. Chandirka	Instructor	11.	Prof Smitha	Assistant Professor
2.	Prof. Chamundi C	Assistant Professor	12.	Prof Rashmi T.V	Assistant Professor
3.	Prof. Mani Mozie	Associate Professor	13.	Prof Divya U H	Assistant Professor
4.	Prof. Heena Kausar	Associate Professor	14.	Prof Kesavan	Assistant Professor
5.	Prof. Jagadevi B	Associate Professor	15.	Prof Madhu	Assistant Professor
6.	Prof. Nithyananda C R	HOD	16.	Prof Praveen	Assistant Professor
7.	Prof. Chandramouli	Professor	17.	Prof Ravi Kumar	Associate Professor
8.	Prof. Mani Meghalai	Assistant Professor	18.	Prof Karthika S	Assistant Professor
9.	Prof. Shilpa P Patil	Assistant Professor	19.	Prof Vishnupriya K	Assistant Professor
10.	Prof. Lakshmi B.N	Assistant Professor			
<b><u>Row 2</u></b>					



# **UTKRANTHI**

## **TECHNICAL ARTICLES**

### **APACHE HADOOP**

Hadoop is an open-source software framework for storing data and running applications on bunch or group of commodity hardware. It is java based framework.

#### **WHAT IS APACHE HADOOP?**

Apache Hadoop is an open source framework that allows for parallel processing of large data sets and collective mining of disparate data sources. Hadoop consists of Hadoop distributed file system, YARN, and other components such as MapReduce. The apache Hadoop open-source frame work extends to include additional software components such as spark, zookeeper, pig and hive along with hundreds of others. These components address the ingestion, security, scripting, processing, visualization and monitoring of data. YARN acts as the operating system managing other applications like MapReduce, which is responsible for processing large datasets in a parallel manner.

#### **WHAT IS THE USE OF APACHE HADOOP?**

Hadoop is mainly used for storage. Popular users use Hadoop as it is low-cost storage, used in data archive used as complement to your data warehouse and for comprising data lake. Data lake supports storing data in its original or exact format. In fact, how to secure and govern data lakes is a huge topic for IT. Apache Hadoop is revolutionizing bigdata in more than one way. While the Hadoop platform introduced reliable distribution storage and processing various packages such as spark on top of Hadoop make it possible to build applications and the data is much faster. Some of the applications of apache Hadoop is, it is used in fraud detection, business analytics, drug discovery and in user-profiles.

#### **COMPANIES USING APACHE HADOOP**

We have found that 30,610 companies that use apache Hadoop. The companies using apache Hadoop are most often found in computer software industry specially in the US. Some of the companies are Neustar inc, Dumhumby limited.

#### **USING OF GETTING AN APACHE HADOOP CERTIFICATE**

Certified candidates in big data and Hadoop will find job opportunities in companies like IBM, JP Morgan chase, Accenture, Capgemini etc. With all tremendous power and numerous benefits, Hadoop has to offer, it still has some significant drawbacks. It's data distribution process is far too complex and it lacks efficiency when processing both unstructured and big data. Fortunately, there are some available alternatives which offer significant increase in speed and utilize hardware more efficiently

Shirisha.K.A, 3<sup>rd</sup> C

### **ARTIFICAL INTELLIGENCE (SOPHIA)**

Artificial intelligence is the ability of a computer program for a machine to think and learn. It is also a field of study which tries to make computers "smart". They work on their own without being encoded with comments John McCarthy came up with the name artificial intelligence in 1955. In general use, the term "AI" means a machine which mimics human cognition at least some of the things we associate with other Minds, such as learning and problem solving can be done by computers, though not in the same way as we do. The well-known "AI"- Sophia is a social humanoid robot developed by Hong Kong based company Hanson Robotics Sofia was activated on February 14, 2016 and made its first public appearance at South by Southwest festival. Sophia has been covered by around the globe and has participated in many high-profile interviews. In October 2017 Sophia became the first robot to receive citizenship of any country. In November 2017 Sophia was named the United Nations development programmes first ever innovation champion and is the first ever known human to be given any United Nations title. A Turing test is a method of enquiry in artificial intelligence for determining whether or not a computer is capable of thinking like a human being. The test is named after Alan Turing the founder of the turning and English computer scientist, cryptanalyst mathematician and theoretical biologist.

Harshit Bhasin, 5<sup>th</sup> A

## **SNAKE ROBOTS**

Snake Robots: Are you afraid of Snakes Robots? What about robots? What about snake robot? Today every widening circle will take you on a little journey of possibility when it comes to pure ingenuity. Did you ever stop to ask yourself why most of us envision the human form when we think of the word "Robot?". What if the real potential of robotics lies with thinking outside that box?

**INTRODUCTION TO SNAKE ROBOTICS!**

Having the flexibility and movement of a slithering reptiles allow these robots to squeeze into spaces that human - form, mechanical cousins and we human, haven't been able to explore. We will be able to identify structural problems in hidden places, perform minimally invasive surgery and find survivors in fragile search and rescue missions. This impressive innovation, is just one incredible example of biomimicry; a growing field of science at the inter sections of engineering, design and biology. What is the real potential for the Snake Robot? Think of many dirty jobs that performed by humans, endanger lives or the jobs that require access to small spaces, spaces that even conventional robots, with limbs or wheel, could never access. When you think about all the fields of work and disciplines of study in which we humans are engaged and the numbers of associated problems we are trying to solve, it becomes clear that the snake robot has an immense amount of potential. What else should be cared about? Inventions like the snake robot remind us to look to nature in our search for solutions to our many problems.

Anusha P S, 5<sup>th</sup> A

## **SAVE THE FORESTS BY USING OLD CELLPHONES**

According to a study done by the statistics research department in the year 2017 there were about 40,00,00,000(40 crore mobile phone users) and each year it increases such that by the year 2022 it is projected that 86 crore mobile phone users will exist. With such a rapidly growing demand phone manufacturing companies start cooking up a lot of new mobile phones, the question here that many want to avoid is "what happens to these huge quantity of old phones?", which without question is very harmful for the environment. For example Old phones contain a lot of cadmium and mercury which when disposed of makes the soil very unfertile or when burned, you know air pollution. Very few have thought about this question and done something about one such person is Topher White the founder of "Rainforest Connection". He's come up with a solution that minimizes the old cell phone damage to the environment. His solution is to take the old cell phone and reuse them, he does this by attaching the old cell phone to a set of solar panels and then reprogramming the phone to listen to audio and then report in real time if there is anomaly in the sound pattern. He then attaches this assembled device to a tree, each cell phone for a tree. This will help the forest rangers to track poachers and stop any illegal activities in the forest, this will ensure that these old phones are put to good use. Now you may think yeah wonderful this is great how this is related to us, and guess what you are right! Unless, you decide to do something with it.

Shalom P, 3<sup>rd</sup> B

# ACTIVITIES

## GENESIS 2019



## WORKSHOP ON EMBEDDED SYSTEMS USING ARM-7



## TECHNICAL SEMINAR

The department of Computer Science and Engineering organized a technical seminar on current technologies. The program was conducted for students on 14<sup>th</sup> September 2019.



The students of 3<sup>rd</sup>, 5<sup>th</sup>, and 7<sup>th</sup> semesters participated in the event and made it a success. Students presented technical seminars on Data Science, Block Chain, IOT and Data Security.



Mr Kishore B T, Salesforce MVP, BLRDEVX Founder addressed the students and discussed about the Salesforce technology. Dr. Prakash, Principal EPCET addressed the gathering and motivated the students to actively participate in such events.



## CULTURAL EVENT

### DASARA AND ETHNIC DAY CELEBRATION

The celebration of Dasara was a grand at the department of CSE. The staff and students were dressed in ethnic wear to celebrate the festival with pride and pleasure. The same day was celebrated as Ethnic Day across the department and all students were dressed in traditional attire to worship the Goddess of health, wealth, joy and prosperity to obtain her blessings.



# REFLECTION PAPER

## SALESFORCE- A Novel Enlightenment

**Event Title:** Salesforce Go, **Event Date:** 7 & 8 August 2019, **Speaker:** Kishore B.T, MVP, Salesforce

Science of today is the technology of tomorrow. Being a computer science student, I am always excited about how the new technologies create a new path for new learning. Technical seminar that was conducted for us was a great opportunity to learn about Technologies such as Data Science, Blockchain, IOT, Data Security. Through this technical seminar on these four topics we understood a lot of things about these Technologies and I was curious to know more about blockchain and IOT. It was very useful in understanding about our interests. We were able to understand our career path and domain. We were also address by Kishore B T, a Salesforce MVP, head of Salesforce Developer community, Bangalore. It was a pleasure to have heard him speak about the Salesforce, career opportunities and Cloud Computing. We understood that Salesforce is a Customer Relationship Management solution that brings companies and customers together. It is one integrated CRM platform that gives all departments including marketing, sales, commerce and service- a single shared view of every customer. We also understood that it works based on Cloud. Cloud Computing is the on-demand availability of computer system resources especially data storage and computing power without direct active Management by the user. It was an amazing experience to meet such a humble and down to earth person. He helped us in knowing and learning about Salesforce. Overall this technical seminar was an eye opener for all of us to learn, explore and grow.

Shreya M, 5<sup>th</sup> B

## AMAZOM WEB SERVICES (AWS): A NEW HORIZON

**Event Titel:** Workshop on cloud computing with AWS, **Event Date:** 10 & 11 October 2019, **Speaker:** Dr.Jagannath. S, Associate Professor, MSRIT.

Cloud Computing is an emerging trend in technology. This technology as separate subject consists of domains where all technical things are going to work. During the course of this class I gained positive attitude on knowing the subject and researching on reports step by step. Cloud Computing topic are into a specific small area which in turn turned out to be very interesting and business oriented. I found a new perspective to learn Cloud Computing Technology AWS (Amazon Web service) provide Cloud Service like complete application, network, database, security and other service as on demand and pay-as-you-go model. AWS became a favourite topic for discussion and more research. After attending workshop I was able to to combine my studies and tell a logic story about the cloud computing for small and medium enterprises. Knowing about AWS they nearly have 150 services in all domains which contains many advantages where it reduces initial cost and make easy to IT infrastructure and provide services. AWS on a whole is an amazing platform to work on and a great platform to empower ourselves in our career.

Prarthana, 5<sup>th</sup> B

# TECHNO-BUZZ

## TECHNICAL FACTS: MAC PRO

The Mac Pro is a series of workstations and servers designed, manufactured and sold by Apple Inc. since 2006. The Mac Pro, in most configurations and in terms of speed and performance, is the most powerful computer that Apple offers. The third generation Mac Pro was announced in June 2019 at the World Wide Developers Conference. It returns to a tower design reminiscent of the Power Mac G5 in 2003 first generation model since the launch in 2006, but with larger and more noticeable air cooling holes. It features up to a 28-core Xeon-W processor, eight PCIe slots, AMD Radeon Pro Vega GPUs, and replaces most data ports with USB-C. The Mac Pro is Apple's workstation. It's designed for professionals who need a powerful and flexible machine, and is ideal for applications that use as many processing cores as possible video-editing applications, image-editing software, 3D programs, and the like. The starting price for the Mac Pro is \$5,999. That model will have an 8-core Intel Xeon processor, 32GB of memory, Radeon Pro 580X graphics and a 256GB solid-state drive for storage.



Dimension: Height: 20.8 inches 52.9 cm, Length: 17.7 inches 45.0 cm, Breadth: 8.58 inches 21.8 cm, Weight: 39.7 pounds (18.0 kg). Apple Mac Pro design inspires cheese grater jokes, and they're pretty gouda. One of them is "OVERPRICED CHEESE GRATER".



Kiran Daroji , 7<sup>th</sup> A

## TECHNICAL JOKES:

- Why do c++ developers have only one child

Ans: Because multiple inheritance is a headache

- How do you write i changed a light bulb on your resume

Ans: Le engineer: single handedly managed the successful upgrade and development of new environmental illumination system with zero cost overruns and zero safety incidents

- If  $0^{\circ}\text{C} = 32^{\circ}\text{F}$

Then  $0^{\circ}\text{C} + 0^{\circ}\text{C} = 64^{\circ}\text{F}$

- Why was the signed integer sad  
It never got any one's-compliment

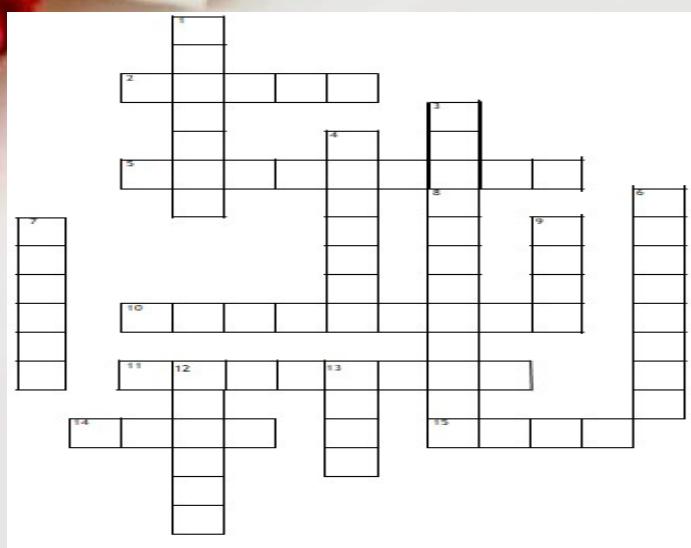
- What's a computer's favourite beat  
Algo-rhythm

- Nokia falls: ground breaks  
Samsung falls: explodes  
Xiaomi falls: screen breaks  
iPhone falls: owner dies

- Girl: what's your idea of a perfect date  
Engineer: DD/MM/YYYY as other formats are very confusing  
Girl: you will die single

Harith G R, 7<sup>th</sup> A

# TECHNO CROSSWORD



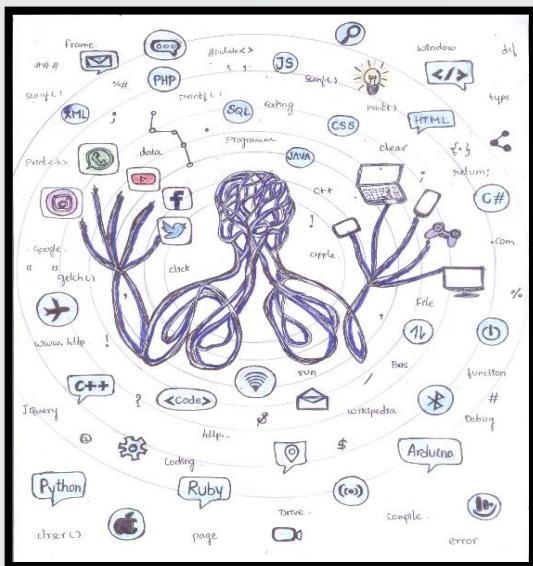
DOWN

- 1.Usually comprise the display devices, circuitry, casing and Power supply.
  - 2.An error, flaw, failure or faults in a computer program or system that cause it to produce an incorrect or Unexpected result or to behave in unintended way.
  - 3.A client software program that runs against a Web server or other internet server and enables a user to Navigates the World Wide Web(WWW) to access and display data.
  - 6.The collections of physical parts of a computer.
  - 7.Sending an email, posting photos on a social media site and using your webcam
  - 8.A part of a computer system or network that is designed to block unauthorized access while permitting outward communications.
  - 9.The combinations of typeface and other qualities, such as size, pitch and spacing.
  - 12.Any computer-generated information displayed on screen, Printed on the paper or in machine readable form such as tape and disk.
  - 13.A word or a group of words that act as a way to Cross reference to other documents or files on the computer.

## ACROSS

2. A device that feeds data into a computer, such as a keyboard or mouse.
  5. The exclusive right, as recognized separately in each country, to publish and sell literary, artistic, or musical materials.
  10. A software system that link topics on the screen to related information and graphics, which are typically accessed by a point-and-click method.
  11. Copy (data) from one computer system to another, typically over the internet.
  14. Usually consist of eight bit.
  15. A measure of the amount of computational work that a Computer system performs

**TECHNO- ART**



Likitha, 3<sup>rd</sup> B

# **MEDHA**

## **ARTICLES**

**Mr. EPGI**

### **A DREAM**

A dream which turned to reality.

I always wanted to be unique and set a trend of my own style.

Two roads diverged in a wood, and I

Took the less travelled by,

And that has made all the difference. I knew the path that I've chose would not be easy, and that path was to become Mr. EPGI. I chose to become Mr. EPGI though none considered me to be deserving. But I had made up my mind and I worked hard and practiced to walk the ramp as a professional model. My confidence rose higher and higher everyday as I was indulged in the character.

And then came the Day, I was so heartbroken, disappointed when it started raining heavily, all the hard work was about to go in vain. But something inside me didn't allow me to breakdown. It said "Richard you can do it. This isn't your failure. Never give up".

And that inner voice shook me back to the reality and I told myself that "I'm my own boss. I'm going to walk the ramp ". And I did though none saw me, I had decided that I will walk the ramp no matter what and I did. I promised myself that I will walk the ramp next time and will win the title.

Never give up. Whatever happens in life have confidence. Be strong and every failure is the stepping stone for success. Never underestimate yourself and do what you have to.

Be an example, an ideal to everyone and inspire all.

I've taken the road that's less travelled, and that has made all the difference.

Rain cannot stop me from being Mr. EPGI

Shreya 5<sup>th</sup> B

### **CHANGE OF LIFE**

"Change with the change else change with change you". But this change is not only changing your tomorrow but it is changing the dwells of tomorrow of others (Creatures other than human) as well. Man is turing greedy that he has started of store, gather luxuries not only for him but also for his near generation. If this thing continues further then he himself will be self-destroyed.

Thejas Karkera B A, 3C

### **BEING THE YOUNGEST MC**

MC: Master of ceremony sounds cool isn't it? But it's the most difficult and at the same time the most wonderful job. I was one among the MC's in our college fest Samskruthi 2k18. I agree I was a little nervous being a fresher. But my MC family supported me and once I had mic in my hand the stage was mine. Being the youngest MC in team I thought I would not be given enough opportunities to showcase my skills and talent, but I was wrong. This was my MC family. The best of all. I had always dreamt of being an MC. I didn't know what would happen when I auditioned for MC. There was mixtures of excitement, nervousness and happiness. When I went for the audition, I was so scared. I was the only first year student and the rest were seniors. Yet that didn't stop me from being myself and I rocked it. I got selected. In the fest I just enjoyed what I did. That moment on stage was so fascinating, the crowd cheering and me rocking as usual. The best moment was when I hosted duet singing and recited my poem. Once I was done reciting the cheer from the crowd made my day. Two days of complete fun and learnt so many things from everyone in the MC family. Age doesn't matter. Talent and skill does, I was confident and nothing could stop me from winning everyone's heart. BE YOU. ENJOY WHAT YOU DO AND YOU WILL SEE THE DIFFERENCE. So this is how I lit the stage on fire though being the youngest of all.

Shreya. M, 5<sup>th</sup> B

## ಆದರ್ಶ ಬದುಕಿಗೆ ನೈತಿಕ ಶಿಕ್ಷಣದ ಅಗತ್ಯ

ಭಾಮಂಡಲದಲ್ಲಿ ಇರುವ ಪ್ರಾಣಿಗಳಲ್ಲಿ ಅತಿ ಬುದ್ಧಿವಂತ ವ್ಯಾಖ್ಯೆ ಮಾನವ. ಅವನು ಹಕ್ಕಿಗಳಿಂತೆ ಆಕಾಶದಲ್ಲಿ ಕಾರ್ಯವುದನ್ನು ರಾಧಿಸಿಕೊಂಡ, ಮೀನಿನಂತೆ ನೀರಿನಲ್ಲಿ ಈಜುವುದನ್ನು ಕಲಿತ, ರುಚಿಯಾದ ಆಹಾರವನ್ನು ತಯಾರಿಸಲು ಕಲಿತ, ದೇಹಶರ್ಮ ಕಡಿಮೆ ಮಾಡುವ ಯಂತ್ರಗಳನ್ನು ಕಂಡುಹಿಡಿದ, ಮೆದುಳಿಗಿಂತ ವೇಗವಾಗಿ ಕೆಲಸ ಮಾಡುವ ಕಂಪ್ಯೂಟರ್ ಕಂಡುಹಿಡಿದ. ಇವೆಲ್ಲವನ್ನು ಭದ್ರವಾಗಿ ಇಟ್ಟುಕೊಳ್ಳಲು ರಕ್ಷಣಾ ವ್ಯವಸ್ಥೆಗೆ ಸ್ನೋಡರ್ ಕಂಡುಹಿಡಿದ. ಇದಕ್ಕೆಲ ಕಾರಣ ಮನುಷ್ಯನ ಯೋಚನಾ ಶಕ್ತಿ ಮತ್ತು ಅದನ್ನು ಗಟ್ಟಿಗೊಳಿಸಿ ಅಭಿವೃದ್ಧಿ ಪಡಿಸುವುದು ಶಿಕ್ಷಣ. ನಾವು ಕಲಿಯುತ್ತಿರುವ ಹಾಗು ಕಲಿಸುತ್ತಿರುವ ಶಿಕ್ಷಣ ಇಂದು ಹೇಗಿದೆ? ಈಗ ಕಂಪ್ಯೂಟರ್ ಮುಂದೆ ಕುಳಿತು ಹಣ ಸಂಪಾದನೆ ಮಾಡುವ ಇಂಜಿನಿಯರ್ ಆಗಲು ಹಲವು ಲಕ್ಷ ಖಚು ಮಾಡಬೇಕು, ಕೋಟಿ ಕೋಟಿ ಸಂಪಾದಿಸುವ ವ್ಯಾದಿರಾಗಲು ಕೆಲವು ಕೋಟಿಗಳಿನ್ನೇ ಖಚು ಮಾಡಬೇಕು! ದುಡ್ಡಿದ್ದರೆ ಶಿಕ್ಷಣ, ದುಡ್ಡಿನಿಂದ ಶಿಕ್ಷಣ ಹಾಗು ದುಡ್ಡಿಗಾಗಿಯೇ ಶಿಕ್ಷಣ ಎನ್ನುವ ಹಂತವನ್ನು ತಲುಪುತ್ತಿರುವುದು ಒಳ್ಳೆಯ ಬೇಳವಣಿಗೆಯಲ್ಲ. ಶಿಕ್ಷಣ ಮುಗಿಸಿ ಹೆಚ್ಚು ಸಂಬಳ ಸಿಗುವ ಕೆಲಸಕ್ಕೆ ನೇರಿ ಆಸ್ತಿ-ಘಾಸ್ತಿ ಸಂಪಾದನೆ ಮಾಡಿ ಮಜಾ ಮಾಡುತ್ತ ಜೀವನ ಕಳೆಯಬೇಕು ಎಂದು ಯೋಚಿಸುವವರಿಂದ ಸಮಾಜಕ್ಕೆ ಏನಾದರೂ ಸೇವೆ, ಸಹಾಯ ಮಾಡುತ್ತಾರೆ ಎಂದು ಅಪೇಕ್ಷಿಸುವುದು ಸಾಧ್ಯವಿಲ್ಲ. ಇತಿಹಾಸವನ್ನು ಗಮನಿಸಿದಾಗ ಸನಾತನ ಭಾರತದಲ್ಲಿದ್ದ ಗುರುಕುಲ ವದ್ದತಿಯ ಶಿಕ್ಷಣ ಹೀಗಿರಲಿಲ್ಲ. ಮಗುವು ಸ್ವಲ್ಪ ಬೇಳದು ದೊಡ್ಡವನದಮೇಲೆ ಅವನ್ನನ್ನು ಶಿಕ್ಷಣಕ್ಕಾಗಿ ಆಶ್ರಮಕ್ಕೆ ಕಳುಹಿಸಲಾಗುತ್ತಿತ್ತು. ಅಲ್ಲಿ ಅವರಿಗೆ ಮೊದಲು ಸಿಗುತ್ತಿದ್ದ ಶಿಕ್ಷಣ ದೇಶಭಕ್ತಿ, ನಾಡಭಕ್ತಿ, ದ್ಯುವಭಕ್ತಿ ಹಾಗು ಗುರುಭಕ್ತಿ ಬಗೆಗೆ, ನಂತರ ಅಕ್ಷರಾಭಾಸ, ಬಿಲ್ಲುವಿದ್ಯೆ, ದೇಹದಂಡನೆ, ಆರೋಗ್ಯ, ರಕ್ಷಣೆ, ಸಂರೀತ ಹಿಗೆ ಹಲವಾರು ವಿಷಯಗಳ ಬಗೆಗೆ ಜ್ಞಾನ ಸಂಪಾದನೆ. ಮುಂದೆ ಆಸಕ್ತಿ ಇರುವ ವಿಷಯದಲ್ಲಿ ಹೆಚ್ಚನ್ನು ಅಭ್ಯಾಸ ಮಾಡಬಹುದಿತ್ತು. ಆದರೆ, ಬೃಟಿಪರ ಆಳ್ಳಿಕೆ ಪರಿಣಾಮವಾಗಿ ಭಾರತೀಯ ಶಿಕ್ಷಣ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ ಹಲವಾರು ಬದಲಾವಣೆಗಳಾದವು, ಒಳ್ಳೆಯಿಲು, ಕೆಟ್ಟದ್ದು ಎರಡೂ. ಕಾಲ ಉರುಳಿದಂತೆ ಆದ ಮತ್ತೆ ಬದಲಾವಣೆ ಇಂದ ಶಿಕ್ಷಣ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ ನೈತಿಕತೆ ಮಾಯವಾಗಿದೆ. ಹಣ ಸಂಪಾದನೆಯೇ ಶಿಕ್ಷಣದ ಗುರಿಯಾಗಿದೆಯೇ ಹೊರತು, ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಕಲಿಸುವುದರಲ್ಲಿ ವಿಫಲವಾಗುತ್ತಿದೆ. ಇದೇ ಕಾರಣಕ್ಕಾಗಿ ಯಿವ ಹೇಳಿಗೆಯಲ್ಲಿ ಸಾಷ್ಟಿರ್ಥ ಹೆಚ್ಚುತ್ತಿದೆ. ತಂದೆ-ತಾಯಿಯನ್ನು ಕಡೆಗಳಿಸುವ ಹಂತ ತಲುಪಿದ್ದಾರೆ. ಶಾಂತಿ, ಸಹನ, ಪ್ರೀತಿ ಹಾಗು ಹೊಂದಾಣಿಕೆಯಿಂತಹ ಜೀವನ ಮೌಲ್ಯಗಳನ್ನು ಬೆಕ್ಕಂದಿನಿಂದಲೇ ಬೇಳನಲು ಶಿಕ್ಷಣದಿಂದ ಮಾತ್ರ ಸಾಧ್ಯ. ಸಾಷ್ಟಿಮಿ ವಿವೇಕಾನಂದ, ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ, ಅಭ್ಯಳ್ಳಾಂರಂತಹ ವ್ಯಕ್ತಿಗಳು ಮಾಡಿದ ಕಾರ್ಯ ಹಾಗು ಅವರು ನೆಡೆದು ಬಂಧ ಹಾದಿ ಹಾಗು ಬಾಲ್ಯದಿಂದ ಬೇಳದು ಬಂದ ನೈತಿಕ ಶಿಕ್ಷಣದ ಫಲ. ನಾವು ಈ ಹಾದಿಯಲ್ಲಿ ನೆಡೆಯುವುದು ಇಂದಿನ ಅಗತ್ಯ.

ಶ್ರೀನಿಧಿ ರಮೇಶ್ ಕೊರಟಿ, 5<sup>th</sup> B

## ಕರುನಾಡು

ಕರುನಾಡು ಎಂದರೇ ಕವ್ಯ ಮಣಿನ ನಾಡು ಎಂದಭಿನ್ನ. ಈ ನಾಡಿಗೆ ಬಹಳ ವರ್ಣಗಳ ಇತಿಹಾಸವಿದೆ. ಅಲ್ಲದೆ ಇದನ್ನು ಆಳಿದ ರಾಜರುಗಳಿಂದ್ದೂ, ಮನೆತನೆಗಳಿಂದ್ದೂ. ಆದರೇ ಅಂದಿನಿಂದ ಇಂದಿನವರೆಗೂ ಈ ಕರುನಾಡು ತನ್ನ ಭಾಷಾ ಪರಿಕ್ರಮಣದಿಂದಾಗಿ ವಿವಿಧ ಭಾಗಗಳಾದ ಹಳೆಗನ್ನಡ, ನಡುಗನ್ನಡ ಮತ್ತು ಹೊಸಗನ್ನಡವೆಂದು ವಿಭಿಜಿಸಲ್ಪಟ್ಟರು ಕೂಡಿ ತನ್ನ ಸಿರಿವಂತಿಕೆ ಮತ್ತು ಭಾಷಾ ವ್ಯಾಖ್ಯಾನದಲ್ಲಿ ಇಂದಿಗೂ ಬಿಟ್ಟುಕೊಟ್ಟಿಲ್ಲ. ಇಂಥ ಕರುನಾಡು, ಕನಾಂಟಕವೆಂದು ಅಧಿಕೃತವಾಗಿ ಹಂಸರು ಪಡೆದು ಈ ವರ್ಣಕ್ಕೆ ಇಂಥ ತುಂಬಿದೆ, ಆದರೇ ಇಂದಿಗೂ ಈ ಕನಾಂಟಕದ ರಾಜ ಲಂಭನೆಗಳ ಬಗ್ಗೆ ಅದೆಂದ್ದೂ ತನ್ನ ದಿಗರಿಗೆ ತಿಳಿದಿಲ್ಲವೆಂಬುದು ಅತಿಶಯೋಕ್ತಿಯೇ ಸರಿ, ಈ ಸಣ್ಣ ಟಿಪ್ಪಣಿಯ ಮೂಲಕ ಆ ರಾಜ್ಯ ಜಿಹ್ವೆಗಳ ಬಗ್ಗೆ ತಿಳಿಸುವ ಸಣ್ಣ ವ್ಯಾಯತ್ವ. ರಾಜ್ಯವೈದ್ಯ - ಗಂಧರ್ವ ಮರ || ರಾಜ್ಯಲಾನಭನ - ಗಂಡಬೇರುಂದ || ರಾಜ್ಯಮೃಗ - ಆನೆ

Thejas karkera B A, 3<sup>rd</sup> C

# POEMS

## I AM THE INDEPENDENCE

I am more than  
Just a holiday  
when you relax on your lounge  
with that air-conditioner under your roof  
enjoying every drop of your hot coffee  
switching and tuning channels  
where national channel is only selected in the  
breaks  
Remember, I am more than just a day...  
I am the ages of struggle you forgot.  
I am more than  
Just the long weekend you were looking for  
Trips, visiting to your relatives, get-togethers  
The night outs, booze parties or your most  
awaited secluded outing  
Remember, I am more than the fun you are  
looking for ...  
I am the memorial of bloods spilled, sweats  
broke and the heads rolled.  
I am more than  
Just a freedom sale  
The big hoardings displaying the discounts  
draped in tricolor  
The malls trying to allure you with the brands  
getting sold at half the rate  
Online stores flashing advertisements  
Every time you are activating that bloody  
internet of yours  
Shoes, apparels, mobiles and what not  
Remember I more than an offer, I am not a  
commodity in the market....  
I am the economy, the financial growth.  
I am more than  
Just a Facebook post of yours

The profile picture you will change with the  
tricolor in the corner  
The forwarded messages coated with  
nationalism  
The status you will update that will get  
vanished the next day  
I am more than that, I am not the show off  
stuff in the social media...  
I am the words which sets you free  
I am your freedom of speech.  
I am more than  
The political speeches  
The praises, the accusations  
The supports, the complains  
The silence, the applauds  
I am more than that, I am not your stunts to  
gather votes...  
I am not political, yet I govern all the politics.  
I am more than  
The game of division that will be played in  
front of different communities  
The seeds of lie that will be sowed  
The fake sweets of appeasement politics that  
will be fed  
The dagger of religion dipped in the poison of  
hatred that will be stabbed silently  
The fights that will be provoked  
And your screams for independence in an  
already independent country  
I am more than that...  
I am the equality, the justice.  
I am the independence.  
I am the free air you are breathing in  
The life you are living

Avinash Kumar Singh, 7<sup>th</sup> A

## WHERE ARE YOU...!?

My pain, seems to be invincible,  
Which in turn is making my mind destructible.  
My pain, makes my heart apart,  
Which in turn is making my soul to depart.  
My pain, makes me wander,  
As a result I'm not able to ponder.  
My pain, has made me, stand at the hill-verge,  
Quote  
Every time we try to offer happiness,  
We are left with the antonym of it !!!

As a result, it would make my ecstasy to sub-  
merge.  
My pain, is letting me speak out everything,  
For which, there's no need of regretting.  
My pain, is letting my veins to extreme degree  
of strain,  
For which, I feel like to continue in rain.

Pavan Kumar D S, 5<sup>th</sup> B

## YAADE

Bheed me bhi sannata gunjti hai  
Jab un palon ki yaad aati hai  
Mele me bhi akele pad jaati hoon  
Jab un lamhon ki yaad aati hai  
Vo pal, Vo lamha...  
Kounsa pal? Kounsa lamha?  
Vahi pal vahi lamhe

Jisme meri muskurahat hua karti thi  
Ankho me chamak hua karti thi  
Jaha har roz khushiyon ka pitara Khula karta  
tha  
Naach gaana hua karta tha  
Aaj wo pal, wo lamha yaad sa reh gaya  
Sirf yaad sa reh gaya!!

Shreya .M, 5<sup>th</sup> B

## RIDDLES

**1.** What has lots of keys but can't open any doors?

**Ans.** A Piano.

**2.** I speak without a mouth, I hear without ears, I have nobody, I come alive with wind, who am I?

**Ans.** ECHO.

**3.** What disappears as soon as you say its name?

**Ans.** Silence.

**4.** What has 13 hearts, but no other organs?

**Ans.** A deck of playing cards.

**5.** What word begins and ends with an E, but has only one letter?

**Ans.** Envelope.

**6.** Where does a cart come before a horse?

**Ans.** In the Dictionary.

**7.** Who can shave 3 times a day and still grow a beard?

**Ans.** A Barber.

**8.** What five-letter word becomes shorter when you add two letters to it?

**Ans.** Short.

**9.** If you have one, you don't share it; if you share it, you don't have it. What is it?

**Ans.** A secret.

**10.** What room do ghosts avoid?

**Ans.** The living room.

**11.** I make two people out of one. What am I?

**Ans.** A Mirror.

Rashmi L, 5<sup>th</sup> B

## LALITHKALAA



Art By: Upendra, 3<sup>rd</sup> C



Art By: Rishil R 7<sup>th</sup>



Art By: Sandhya N 5<sup>th</sup> B



Art By: Chandana Reddy, 3<sup>rd</sup> C



Art By: Hajira 5<sup>th</sup> A



Art Bv: Rishil R 7<sup>th</sup>



Art By: Manoj Babu, 3<sup>rd</sup> B

## PHOTOGRAPHY



N Pavan Bushan Reddy, 7<sup>th</sup>



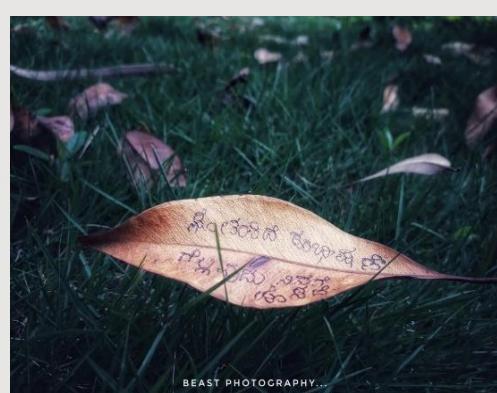
Srinidhi K R, 5<sup>th</sup> B



Prajwal Iyer, 7<sup>th</sup>



Harith G R, 7<sup>th</sup>



Akarsh S V, 7<sup>th</sup>

# AVADHAAN



-Chetana N S, 7sem, 26th April,2019  
-Miss EPGI in Samskruthi 2k19



-Ananya R and K R Swarna,7th sem  
-Junk Art,1st prize , Samskruthi 2k19



-Mock Rock, 1st place, 7th sem  
-26-04-19, Samskruthi 2k19



-Drama Event, 1st place  
-26-04-19, Samskruthi 2k19

## ZAKYATA

ಅಮ್ಮೆ

ಅಮ್ಮೆ ಅಮ್ಮೆ  
ನಾ ಬೆಳೆದೆ ನಿನ್ನ ಗರ್ಭದಲ್ಲಿ  
ನೀ ಕೊಟ್ಟ ಜೀವಾಂಶವನುಂಡು  
ನೀ ನಿಟ್ಟ ವಜ್ರರಕ್ಷೆಯ ಪಡೆದು||  
ನಾ ಬೆಳೆದೆ ನಿನ್ನ ಮತ್ತಿಲಿನಲ್ಲಿ  
ನೀ ಕೊಟ್ಟ ಅಮೃತ ಕುಡಿದು  
ನೀ ನಿಟ್ಟ ಮುತ್ತ ಪಡೆದು||  
ನಾ ಬೆಳೆದೆ ನಿನ್ನ ಸುತ್ತಲಲ್ಲಿ  
ನಿನ್ನ ಕೈಯ್ಯ ಬೇರಳ ಹಿಡಿದು  
ನೀ ಕೊಟ್ಟ ತುತ್ತ ಪಡೆದು||  
ನಾ ಬೆಳೆದೆ, ನಾ ಬೆಳೆದೆ  
ನೀ ಕೊಟ್ಟ ಅನುರಾಗ ಸವಿದು  
ನೀ ನಿಟ್ಟ ಪ್ರೀತಿಯ ಪಡೆದು||  
ನಾ ಬರುವೆ ಮಗದೋಮ್ಮೆ  
ನಿನ್ನ ಗರ್ಭಕ್ಕೆ, ನಿನ್ನ ಮದಿಲಿಗೆ  
ನಿನ್ನ ಪ್ರೀತಿಯ ಅಮೃತವನ್ನಣ್ಣಲು||

Prof. Harsha, Assistant Professor

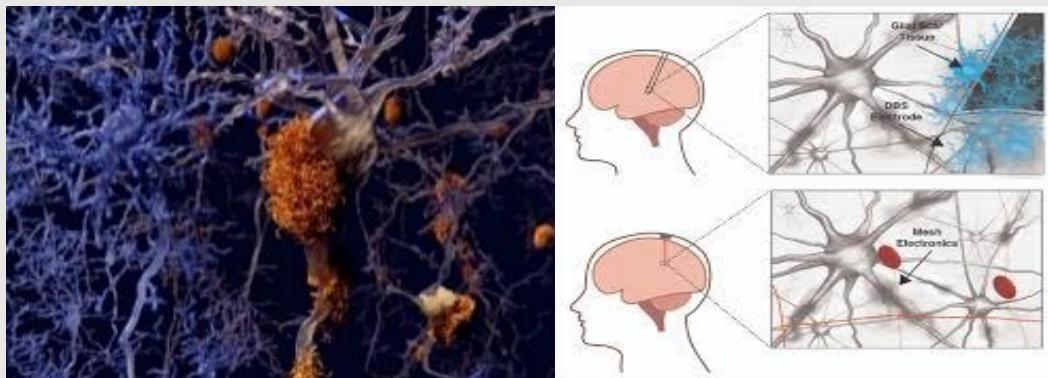
## EDGE COMPUTING

Learning is a never ending process. As everything is digitalized, to stay competitive we need to update. Here comes the edge computing. Edge literally means Geographic distribution. The main Idea behind is to move the computation away from data centres towards the edge of the network. Here the processing is done by the device itself instead of translating it to the data centre. The main advantage is reducing the usage of internet bandwidth as a data processing is done near the source, it also provides instant response for any smart application and devices. To meet the growing demands for faster data analysis, Cloud Computing alone is not sufficient. So edge along with cloud makes the Future. The future approach is regarding the security required hardware and about the level of information loss.

Prof. Karthika, Assistant Professor

## FUTURE CHALLENGES IN NURO TECH

Dementia is a broad category of brain diseases that cause a long-term and often gradual decrease in the ability to think and remember that is severe enough to affect a person's daily functioning, emotional problems, difficulties with language, and a motivation. The patients have only two options for medical intervention: drugs or, when those fail, implanted electrodes. Drugs like L-dopa can quiet the tremors that prevent someone with Parkinson's from performing simple tasks like dressing and eating. But because drugs affect severe nausea to depression to abnormal heart rhythms. When drugs no longer work, FDA-approved electrodes can provide relief through Deep Brain Stimulation. Like a pace maker, a battery pack set beneath the clavicle sends automated electrical pulses to two brain implants. During implantation, Parkinson's patients are awake, so surgeons can calibrate the electrical pulses.



The Lieber's mesh electronics provoke almost no immune response. With close, long-term proximity to the same neurons, the implants can collect robust data on how individual neurons communicate over time. In time, they could act like neural substitutes, replacing damaged circuitry to re-establish broken communication networks and recalibrate based on live feedback. The National Natural Science Foundation of China funded the largest number of studies on Alzheimer's disease in China and recognized the importance of traditional Chinese medicine in Alzheimer's disease research. Still, strengthening international cooperation could improve the quality of study.

Dr. I. Manimozhi, Associate Professor

## BLOCK CHAIN

Block chain is essentially a digital ledger used to record transactions but secured due to its encrypted and decentralized nature. Blockchain is a cryptography based software technology which is heavily secured due to its attributes of peer to peer verification and authentication. It is a simple digital platform for verifying and recording transactions so that other users cannot erase them. It is devised for digital currency called Bitcoins. Ex. What is my account balance? Digital Identity. ex. Who are you and how have you changed over time? Digital representation of a property/ Tokenization for ex: Who owned this car over time? and Tracking provenance of food or

drugs for ex. What country & postal code did this chicken come from?

### Working of BLOCK CHAIN:

**Chronological Ledger:** Transactions are pseudo-anonymous. They are grouped together in blocks. They are logged and stamped with information about time, amount and participants.

**Maintenance:** The individuals who maintain and update the Block chain are Miners and they are paid a reward. The Miners process the transactions by either solving complex mathematical problem or by sending transactions to other nodes to be verified.

**Hashing:** The unbroken Hash (seal) confirms that the block, and therefore every block before it, is legitimate. Miners incentivized to add “valid” transactions via a reward. Invalid transactions are rejected, and thus, no reward is given. When all miners agree the problem has been solved correctly, the block is added to the chain and is visible to the entire network.

How Block chain technology can help the Government?



### 1. Asset registration

A blockchain framework enables government agencies to increase the accuracy and efficiency of publicly held records by linking ownership of an asset to a single, shared

ledger without disrupting existing registry data.

### 2. Identity services

Blockchain enables government agencies to create a single, trustworthy collection of digital identity documents. These documents make it easier for government officials to reconcile data conflicts and provide citizens with control over their own identity.

### 3. Fraud prevention and compliance

Blockchain creates a shared and trusted ledger that sequentially appends cryptographically secure data. The ledger is only accessible to trusted parties, giving government administrators the assurance that they're working with data that's up-to-date, accurate and nearly impossible to manipulate.

**4. Supply Chain:** Blockchain makes the precise location of an object and its accompanying digitized documentation part of a traceable permanent record giving government full visibility of the supply chain. Thus, Blockchain is the future. Let's be ready to leverage this technology.

Prof. Manimegalai A, Assistant Professor

### NAARI

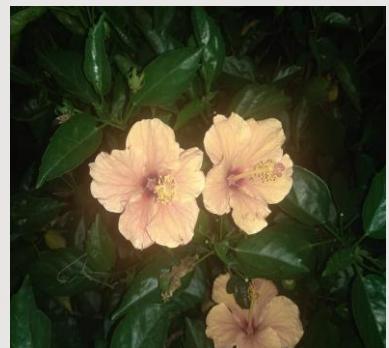
Over decades women's status in India is subjected to many changes. Beginning from the British East India company rule (1757-1857), British Raj (1858-1947), Sari Regulation(1829), Widow's Remarriage Act 1856, Prevention act of Female Infanticide 1870 and Age of consent 1896. Under Constitution of India, Women right include freedom, equality, discrimination and dignity. But Women after Independence have served in various Senior official position in Indian Government including Prime minister of India (Smt. Indira Gandhi), president of India(Smt. Pratibha Patil), First Governor of India ( Smt. Sarojini Naidu), Speaker of Lok Sabha(Smt Najma Heptulla),Served as Defence and current Finance Minister (Smt. Nirmala Sitharaman), External affairs Minister (Smt. Sushma Swaraj) Mother Teresa etc. Women represents a momentous demographic group in agriculture sector, either by means of Industrial or Agricultural labourer. Not only in the above fields woman's are outstanding in Science and Technology. Debjani Ghosh is appointed as first female president for NASScom group. She is the first to lead tech giant Intel India, MAIT(Manufacturers Association for Information Technology) and now NASScom. Geetha Kannan, from Bengaluru is the Managing Director of Anita.org India, which focus on advancing the careers of women in technology. Ashni Dwarkadas, she is one of the co-founder of Hackberry. Asima Chatterjee born in 23rd September 1917 died on 22 Nov 2006 is an Indian Chemist Scientists. She is noted for her work in the field of organic chemistry and Phytonadione. She was the first women to receive a Doctorate of Science from an Indian University. Google deployed 24 hour Google Doodle on 23rd September 2017 in honour of her birth Anniversary. Prof. Rohini Godbole is an Indian Physicist and Academic. She is a part of the International Detector Advisor Group (IDAG) for the International Linear Collider in the European Research Lab CERN. She has written many books, one of her book is 'The Girl's Guide to a life in Science', inspiring, informative, ingenious, meet 25 of India's most celebrated female scientists. She is been awarded as Padmaja (2019) by the Government of India, IIT Bombay. Janaki Ammal Edavalath Kakkat born in 4 Nov 1897 died on 7 Feb 1984, was an Indian Botanist, who conducted Scientific Research in Cytogenetics and phytogeography.

Prof. Heena Kousar, Associate Professor

## PHOTOGRAPHY IN THE CRADLE OF NATURE



Prof. Nithyananda C.R, HOD



Prof. Rashmi T.V, Assistant Professor

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING



FROM LEFT TO RIGHT →

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
<b>Row 1</b>			<b>Row 2</b>		
1.	Prof. Anshula B A	Assistant Professor	11.	Prof. Manjula A.K	Assistant Professor
2.	Prof. Indumathi S	Assistant Professor	12.	Prof. Rebecca S	Assistant Professor
3.	Prof. Shefali Arora	Assistant Professor	13.	Prof. Anitha N	Professor
4.	Prof. Bindya	Assistant Professor	14.	Prof. Nanda Ashwin	Professor
5.	Prof Kemparaju N	HOD	15.	Prof. R Geetha	Assistant Professor
6.	Prof. Nandini Gowda P	Assistant Professor	16.	Prof. Vandana N S	Assistant Professor
7.	Prof Priya N	Assistant Professor	17.	Prof. Teena K V	Assistant Professor
8.	Prof. Nayana K Kumar	Assistant Professor	18.	Prof. Jayashree M	Associate Professor
9.	Prof. Nethra S.N	Assistant Professor	19.	Mr. Vinod Kumar	Lab Instructor
10.	Prof. Chethana C. I	Instructor	20.	Mr. Harihara Prem	Lab Instructor
			21.	Mr. Shivashankar	Non-Technical Staff



# UTKARNTHI

## TECHNICAL ARTICLES

### EVERYTHING YOU NEED TO KNOW ABOUT IOT APPLICATIONS

The term “*Internet of Things*” has become increasingly popular over the last five years or so, and it looks like we’ll be hearing even more about it in the coming years. But, as is the case with other hot buzz phrases like this, many people scratch their heads and ask, “What is this, and why should I care?” The simplest, most straightforward definition is: The IoT is a network of Internet-linked devices, vehicles, and appliances that can collect and share data without need of human interaction. IoT devices gather information and send it along to some central data server, where the information is processed, collated, distilled, and used to make a host of tasks easier to perform. The business world enjoys the benefits of IoT, government, organizations, and the individual consumer. Specific IoT-equipped devices include smartphones, laptops, coffee machines, refrigerators (mine auto-orders replacement water filters!), Google Home, Apple watches, Fitbits, to name a few. Any device can be plugged into the IoT provided it is equipped with sensors and an Internet connection. Often, IoT is mentioned in the same breath as Big Data, since the former generates the kind of massive quantities of information characteristic of the latter. One could say that while all of the information from the Internet of Things is Big Data, not all of Big Data is from the Internet of Things.

#### IoT Applications

The Internet of Things can be used in many different aspects of life, in both the private and public sectors. Thanks to IoT, people can track things like lost pets, their house’s security systems, or appliance maintenance schedule. Consumers can use the IoT to help them make restaurant reservations, monitor their exercise progress and overall health, and receive coupons for a store only by virtue of walking by the business in question. Businesses can use IoT to monitor supply chains, track customers’ spending habits as well collect their feedback, monitor and maintain inventory levels, and engage in predictive maintenance of their machines and devices.

Jerin Joy, 3<sup>rd</sup> ISE

### APPLE’S CHINA STANCE MAKES FOR STRANGE POLITICAL ALLIANCES, AS AOC AND TED CRUZ SLAM THE COMPANY

In a rare instance of bipartisanship overcoming the rancorous discord that’s been the hallmark of the U.S. Congress, senators and representatives issued a scathing rebuke to **Apple** for its decision to take down an app at the request of the Chinese government. Signed by Senators **Ron Wyden, Tom Cotton, Marco Rubio, Ted Cruz**, and Congressional Representatives Alexandria Ocasio-Cortez, Mike Gallagher and Tom Malinowski, the letter was written to “express strong concern about Apple’s censorship of apps, including a prominent app used by protestors in Hong Kong, at the request of the Chinese government”. In 2019, it seems the only things that can unite America’s clashing political factions are the decisions made by companies in one of its most powerful industries. At the heart of the dispute is Apple’s decision to take down an app called HK Maps that was being used by citizens of the island territory to track police activity. For several months protestors have been clashing with police in the tiny territory over what they see as the undue influence being exerted by China’s government in Beijing over the governance of Hong Kong. Citizens of the former British protectorate have enjoyed special privileges and rights not afforded to mainland Chinese citizens since the United Kingdom returned sovereignty over the region to China on July 1, 1997. “Apple’s decision last week to accommodate the Chinese government by taking down HK Maps is deeply concerning,” the authors of the letter wrote. “We urge you in the strongest terms to reverse course, to demonstrate that Apple puts values above market access, and to stand with the brave men and women fighting for basic rights and dignity in Hong Kong.” Apple has long positioned itself as a defender of human rights (including privacy and free speech) in the United States. Abroad, the company’s record is not quite as spotless, especially when it comes to pressure from China, which is one of the company’s largest markets outside



of the U.S. Back in 2017, Apple capitulated to a request from the Chinese government that it remove all virtual private networking apps from the App Store. Those applications allowed Chinese users to circumvent the “Great Firewall” of China, which limits access to information to only that which is approved by the Chinese government and its censors. Apple isn’t the only company that’s come under fire from the Chinese government as part of their overall response to the unrest in Hong Kong. The **National Basketball Association** and the gaming company **Blizzard** have had their own run-ins resulting in self-censorship as a result of various public positions from employees or individuals affiliated with the sports franchises or gaming communities these companies represent. Over 1,100 applications have been taken down by Apple at the request of the Chinese government, according to the organization Great Fire (whose data was cited in the Congressional letter). They include VPNs, and applications made for oppressed communities inside China’s borders (like Uighurs and Tibetans). However, Apple is the largest of these companies, and therefore the biggest target. The company’s stance indicates a willingness to accede to pressure in markets that it considers strategically important no matter how it positions itself at home.

Nirmal kumar Rodrigues, 5<sup>th</sup>

### **QUANTUM SUPREMACY**

There’s been immense buzz around the device called Quantum Computers, ever since its inception in the early 1980’s. Paul Benioff first proposed a quantum mechanical model of the turning machine. Later rules were laid down stating that a quantum computer should be able to solve problems which seem impossible for classical computers to solve. This is what they call, Quantum Supremacy, the ability of a quantum computer to solve complex problems that classical computer practically cannot. Quantum computing is still in its infancy and on 23<sup>rd</sup> October, 2019 Google has achieved a huge milestone and a huge step toward useful quantum computers. Google’s Sycamore (quantum computer) chip has achieved Quantum Supremacy by performing a task called Random Circuit Sampling. Essentially, they performed a sequence of randomized operations on the 53 of 54 qubits of the chip. Then the researchers measured the values of all the qubits and performed this operation multiple times. They got a distribution of numbers close to random but not really due to an effect called Quantum Entanglement, where a certain pattern seems to show in the numbers generated. This same operation was simulated on the world’s fastest and most powerful supercomputer, Summit. While it took the Sycamore chip 200 seconds to complete the sampling calculation of 53 qubits, it was found that it would take 10,000 years for Summit to simulate the same. Solving this is practically impossible due the time it would take and hence Quantum Supremacy was achieved. Although this task isn’t a useful application of quantum computers, some suggest that this could be used to generate stronger passwords and/or create powerful encryption/decryption systems.

Adriano Jose, 3<sup>rd</sup> CSE

### **FACE DETECTION & RECOGNITION TECHNOLOGY**

Now your face can be the password for unlocking smart phones and bank accounts. But this technology also has the power to covertly track your movement. Moving into a world where machines can follow you around and characterize you based only on your face is varying because it potentially limits your freedom. It is able to guess your sexuality through facial features alone. The human face has an astonishing variety of features, which not only help us recognize others but read and understand them through a constant flow of intentional and unintentional signals. It is one of the unique functions that separate man from machine, until now. 2018 was a landmark year for face recognition because, there’s been a huge amount of progress in the underlying technology known as machine learning and what that allows you to do is put a very accurate face print out of a photograph that uniquely identify a person.

Janvee Dixit, 3<sup>rd</sup> CSE

## LUXURY SPACE HOTEL

A start up called Orion Span, revealed plans for an on-orbit hotel on April 5th, 2018. They have ambitious plans to launch "Aurora Station" in late 2021 and begin accommodating guests in 2022. Though, Orion space has yet to confirm any deals with launch providers. It's about the size of a large private jet's cabin and will accommodate four paying guests and two crew members with a 12-day stay, starting at \$9.5 million. A figure configuration consists of 200 miles i.e., 320 kilometres above Earth. Orion space is currently accepting \$80,000 deposits to reserve an Aurora station stay. It is the first luxury hotel in space. Ryan span announced plans opening in 2020. Research experiments on growing food and high speed internet are the main motto of space hotel. It would be the best ever achievement in the coming centuries. Apart from 7 wonders, monuments and other constructions from humans, this would stand all alone as the best achievement ever.

Joys Angel 3<sup>rd</sup> CSE

## ACTIVITIES

### DASARA AND ETHNIC DAY CELEBRATION



Dasara was celebrated in the department of Information Science and Engineering on 4<sup>th</sup> October 2019. It was celebrated as a Ethnic Day by the student community. All the students of our department participated in worshiping the Goddess Durga for her blessings. The student and staff participated in the event actively and celebrated the festival together.

## TECHNO BUZZ

### RIDDLES

- 1.Why did the developer go broke ?  
Ans: Because he used up all his cache
- 2.what do you call 8-habbits?  
Ans: A hobbyte
- 3.What did the spider do on the computer?  
Ans: Made a website
- 4.What do computers eat for a snacks?  
Ans: Microchip
- 5.Why did the spider get a job in IT

- Ans :He was a web designer
- 6.What do prisoners use to call each other ?  
Ans: cell phones
- 8.I come in square Package but I'am round I contain lot of information for your computer, handle me carefully what am I ?  
Ans: Compact disc
- 9.Why are computer nerds called ninjas?  
Ans: They can handle the terrorbyte computing

Chandan P.A, 3<sup>rd</sup> CSE

# REFLECTION PAPERS

## AWS WORKSHOP REFLECTION REPORT

**Event Title:** Workshop on Cloud Computing with AWS Services, **Event Date:** 10 & 11 October 2019,  
**Speaker:** Dr. Jagannath S, Associate Professor, MSRIT.

Amazon Web Services (AWS) delivers reliable, scalable, and cost-effective computing resources on which to host applications. It has the following components Amazon Elastic Compute Cloud (Amazon EC2), Amazon Simple Storage Service (Amazon S3) and Amazon Relational Database Service (Amazon RDS). The session was held for two days, where we learnt about the techniques and tools available in the amazon web account. Among the various techniques that are available, the first is the EC2 instance through which many of the existing tools can be used to build a standalone application within a few man hours. The process for creating an EC2 instance when using AWS can become quite complex. You can manually create key pairs used to log in to the instance, for example, or create a special security group to help maintain EC2 security. Next we saw how auto scaling works, When you see the term autoscaling, think of the generic use of a feature (not necessarily a service) to make applications, services, and other AWS features add and remove resources as needed to make applications scale better and provide a consistent user experience. When you see Auto Scaling, think about the service that you specifically use to make auto scaling feasible with certain AWS services. The Auto Scaling feature enables your EC2 instances to handle loads without a lot of human intervention. Bringing together such a wide range of learning experiences, the workshop remains an excellent medium of learning as well as of assessment. It encourages student to undertake deep rather than surface learning and give lecturers an opportunity to provide insightful feedback. It also develops the transferable skills students need in the professional workplace, and, most importantly, it presents student with an intellectual Challenge that can be met only by developing sophisticated ways of Thinking and applying gained knowledge. This is the best workshop I have ever attended and the one with the most useable tools for every curriculum topic. I especially liked the way the strategies were used to reinforce our learning of the concepts and our ability to retain and actually apply what we learned.

Dhirender Prathap Singh, 7<sup>th</sup> A

## VMWARE - WOMEN EMPOWERMENT IN IT

“Seminar is one of an ideal learning structure of exchange of thoughts and ideas”.

**Event Title:** Workshop on VMware Nalanda Programme, **Event Date:** 21 October 2019,  
**Speaker:** Ms.Harjeet Pruthi, Senior Program manager, VMware, Ms.Pushpalatha G.P, Senior Quality Engineering Manager, VMware, Mr.Sachin R.S, Regional Program Manager, Vmware.

I had an opportunity to attend this workshop held at our college, East Point College of Engineering Attending this workshop, I was reminded of a quote, "Behind every successful women, is a tribe of other successful women who have her back". VMWare is doing the same for empowerment of women in IT. What I really didn't know &surprised me was the programs with which a virtualization company like VMWare has come up with programmes like 1)VMWare Tara 2)VMWare Nalanda This particular program called the 'VMWare Tara' really got me interested in because it ideally deals with supporting women who took a career break & want to make a return in the IT Field. During the workshop ,VMWare brought into light what it has been doing to provide women, the facility of returning back to continue their career, even if there is a case of returning back after a period of 10 years & support women in many other ways. Yet another program of VM Ware which I found was remarkable, is the VMWare Nalanda Program which mainly focuses on enriching and enhancing female students; wherein girls who are bright and intelligent are sponsored, trained &given an end to end transformation with placement assistance also. In conclusion, the seminar I attended was very purposeful &informative giving a huge insight on what VM Ware is doing in empowering women in the field of technology. I would be proud to join one such company in the future!

Stuthi J Nadakattin, 5<sup>th</sup>

# MEDHA

## ARTICLES

### PATRIOTISM

Me being an army lover, searching for an opportunity to narrate the story of our Indian army's bravery and sacrifice. Our college fest gave me an opportunity to deliver an immensely patriotic act and give a small gist of our Indian army's bravery. We put forth an act enacting the tragedy that struck the whole country, Pulwama Attack and how the soldiers of our motherland, India fought back via Air Strike and took revenge against the terrorists. Once the act was completed, it was definitely a moment of proudness for me as we got standing ovation and it was an emotional moment to all of us. We salute the bravery, sacrifice and patriotism of each and every soldier.



I am a trained classical singer where I have completed my juniors in Carnatic music and also been practicing violin from past one year. I have been to many singing programs and also took part in many of the singing competitions. I was awarded with many medals and certificates for my singing.

Vilas, 7<sup>th</sup> A

### ಮಹಿಳಾಸಂಭಾರಣ

ಮಹಿಳೆಯರ ಸಂಭಾರಣ ಅತ್ಯಂತ ಮುಖ್ಯವಾದ ಅಂಶ ಇಂದಿನ ಸ್ವತಂತ್ರ ಭಾರತದಲ್ಲಿ. ಮಹಿಳೆಯರು ಪುರುಷರಿಗೆ ಸಮಾನರಳ್ಲಿ ಎಂಬುವುದು ಪೂರ್ವಜರ ನಂಬಿಕೆಯಾಗಿತ್ತು. ಅವರು ತನ್ನ ಗಂಡ ಮನೆ ಮಕ್ಕಳ ನೋಡಿಹೊಂಡು ಮನೆಯಲ್ಲಿಯೇ ಇರುವುದಕ್ಕೆ ಮಾತ್ರ ಎಂದು ದೃಢವಾಗಿ ನಂಬಿದ್ದರು. ಆದರೆ ಇತ್ತೀಚಿನ ದಿನಗಳಲ್ಲಿ ಮುಂದುವರೆಯುತ್ತಿರುವ ಭಾರತದಲ್ಲಿ ಮಹಿಳೆಯರ ಸಂಭಾರಣ ಸ್ನಾಪ್ ಮಟ್ಟಿಗೆ ಹೆಚ್ಚು ಖಗೋಂಡಿದೆ. ಅವರು ಸಾಮಾಜಿಕವಾಗಿ, ಆರ್ಥಿಕವಾಗಿ, ವ್ಯೋಮಕ್ಕಿರುವಾಗಿ ನಿರ್ದಾರಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳಲು ಅವರಿಗೆ ಹಲವಾರು ಅವಕಾಶಗಳನ್ನು ನೀಡಲಾಗುತ್ತಿದೆ. ಆದರೂ ಕೆಲವು ಮಹಿಳೆಯರು ಮಾತ್ರ ಈ ಅವಕಾಶಗಳನ್ನು ಬಳಸಿಕೊಂಡಿರುವರು. ಇನ್ನು ಎಷ್ಟೋ ಮಹಿಳೆಯರು ಅತ್ಯಾಚಾರ, ಹಿಂಸೆ, ದೌಜನ್ಯ, ಗಳಿಗೆ ಒಳಗಾಗಿದ್ದಾರೆ. ಮಹಿಳೆಯರು ಸಂಭಾರಣ ವಾರ್ಷಿಕಾದರೆ ಸರ್ಕಾರದಿಂದ ಮಾತ್ರವಲ್ಲ ನಮ್ಮ ಸುತ್ತಮುತ್ತಲಿನ ಸಮಾಜವೂ ಸಹ ಅದಕ್ಕೆ ಸಹಕರಿಸಬೇಕು. ಮಹಿಳೆಯರಿಗೂ ಸಹ ಎಲ್ಲಾ ವರ್ಗಗಳಲ್ಲಿಯೂ ಪುರುಷರಷ್ಟೇ ಸಮಾನವಾದ ಅವಕಾಶಗಳನ್ನು ನೀಡಬೇಕು. ಒಂದು ಮಹಿಳೆಯು ತನ್ನ ಮನುವನ್ನು ತನ್ನ ಗರ್ಭದಲ್ಲಿ ಟ್ಯೂ ಅದಕ್ಕೆ ಜನ್ಮ ನೀಡುವ ಸಾಮಧ್ಯವನ್ನು ಹೊಂದಿರುವಷ್ಟು ಅಂತಹ ಶಕ್ತಿ ಇರುವಂತಹ ಹೆಚ್ಚಿಗೆ ಅವಕಾಶವನ್ನು ನೀಡಿದರೆ ಅವಷ್ಟ ಪುರುಷರಿಗೆ ಯಾವುದರಲ್ಲಿಯೂ ಹಿಂದೆ ಇಲ್ಲವೆಂದು ತೋರಿಸುವ ಸಾಮಧ್ಯ ಆಕೆಗಿದೆ. ಆದ್ದರಿಂದ ಹೆಚ್ಚಿಗೂ ಪುರುಷನಷ್ಟೇ ಸಮಾನವಾದ ಸ್ಥಾನಮಾನಗಳನ್ನು ನೀಡಿ ಸಾಮಾಜಿಕವಾಗಿ, ಆರ್ಥಿಕವಾಗಿ, ಭೌತಿಕವಾಗಿ ನಿರ್ದಾರಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳಲಿವಂತೆ ಮಾಡಬೇಕು. ಮಹಿಳೆಯು ಅಂತರಾಷ್ಟ್ರೀಯ ಸಂಭಾರಣ.

### ನನ್ನ ತಂಡೆ

ನನಗೆ ಅವ್ಯಾ ಎಂದರೆ ನೆನೆವಾಗುವುದು ನನ್ನ ತಂಡೆಯ ಗದರು ಮೀನೆ, ಉದ್ದನೆಯ ತೋಳಿನ ಬಟ್ಟೆ, ನನ್ನ ತಂಡೆಯ ಕಿವಿಯಲ್ಲಿರುವ ಕೂದಲುಗಳು, ನನ್ನನ್ನು ಅವರು ನೋಡಿದಾಗ ಅವರಿಗೆ ಆಗುವ ಆನಂದ. ವಂಶೋದ್ಧಾರಕ ಮಗನೇ ಹುಟ್ಟಬೇಕೆಂದು ಅಪ್ಪಬಯಸಿದರು. ಆದರೆ ನನ್ನ ತಂಡೆಗೆ ಮೂರು ಜನ ಹೆಣ್ಣು ಮಕ್ಕಳ ಹಾಗೂ ಒಂದು ಗಂಡು ಮಗ. ತನಗೆ ಮೂರು ಜನ ಹೆಣ್ಣು ಮಕ್ಕಳ ಜನ್ಮಿಸಿದರಲ್ಲ ಎಂದು ಕೊರಗದೆ ನಮಗೆ ವಿದ್ಯಾಭ್ಯಾಸವನ್ನು ಹೊಡಿಸಿದ್ದರು. ನನ್ನ ತಂಡೆ ಚಾಲಕ ವೃತ್ತಿಯಲ್ಲಿದ್ದ ತನ್ನ ಮಕ್ಕಳನ್ನು ಮತ್ತು ಹೆಂಡತಿಯನ್ನು ಸಾಕಲು ಹಗೆಲು-ರಾತ್ರಿಯನ್ನದೆ ಯಂತ್ರದಂತೆ ದುಡಿದು. ನಮ್ಮ ಮುಂದಿನ ಭವಿಷ್ಯತ್ವಾಗಿ ತಮ್ಮ ಎಲ್ಲಾ ಸಂಶೋಧನನ್ನು ತ್ಯಾಗ ಮಾಡಿ ನಮಗಾಗಿ ದುಡಿಯುತ್ತಿದ್ದಾರೆ. ಬಿಸ್ಸಿನ ಕೆಳಬ್ಜು ಗೆರೆಗಳನ್ನು ಒತ್ತುತ್ತೆ ಎವ್ವು ಗಂಟೆಗಳ ಕಾಲ ಹಾತಲ್ಲೇ ಕೂತು, ಇದ್ದರೂ ಸಹ ಆ ಬಂಡಿ ಯೋಂದಿಗೆ, ತನ್ನ ಸಂಸಾರದ ಬಂಡಿಯನ್ನು ಸಾಗಿಸುತ್ತಿದ್ದಾರೆ. ಅಕ್ಕೆದಕ್ಕೆದ ಸಂಬಂಧಿಗಳು ನಿನಗೆ ಮೂರು ಜನ ಹೆಣ್ಣು ಮಕ್ಕಳ ಯಾಕೆ ಅವರಿಗೆ ವಿದ್ಯಾಭ್ಯಾಸ ಅವರು ಮದುವೆಯಾಗಿ ಬೇರೆಯವರ ಮನಗೆ ಹೋಗುವವರು

ಎಂದಾಗ ನನ್ನ ತಂಡೆ ಮುಸ್ಳಿಗುತ್ತಾ ನನಗೆ ಮೂರು ಜನ ಹೆಣ್ಣಮಕ್ಕು ಇಲ್ಲ ಮೂರು ರತ್ನಗಳಿವೆ ಸಾಕು ಯಾವುದೇ ಆಸ್ತಿ ನನಗೆ ಬೇದ ನಾನು ಅವರಿಗೆ ಗಂಡನ ಮನೆ ಹೋಗುವಾಗ ಎಪ್ಪು ಕೊಟ್ಟು ಕೆಳುಹಿಸಿದ್ದರು ಅದು ಮುಗಿದು ಹೋಗುತ್ತದೆ ಅವೇಚ ಗಂಡ ಅವಳನ್ನು ಬಿಟ್ಟರೂ ಬಿಡುಹುದು ಆದರೆ ನಾನು ಕಲಿಸಿದ ವಿದ್ಯೆ ಮಾತ್ರ ಅವಳ ಕ್ಯೆ ಬಿಡುವುದಿಲ್ಲ ಎಂಬುದು ಅವರ ನೆಂಬಿಕೆ ಜಗತ್ತಿನಲ್ಲಿ ಅತ್ಯಂತ ಶೈಷ್ವಾದ ದಾನ ವಿದ್ಯಾದಾನ ಅದನ್ನು ನನ್ನ ತಂಡ ನನಗೆ ನೀಡಿದ್ದಾರೆ ಅದು ನನ್ನ ಪುಣ್ಯ ನನ್ನ ಮುಂದಿನ ಭವಿಷ್ಯಕ್ಕೆ ಭದ್ರ ಬುನಾದಿ ಹಾಕಿದ್ದಾರೆ. ನನಗಿರುವುದು ಒಂದೇ ಆಸೆ ನನಗಾಗಿ ತನ್ನ ಜೀವನದಲ್ಲಿ ಎಪ್ಪು ಸಂತೋಷಗಳನ್ನು ತ್ವಾಗ ಮಾಡಿದ ನನ್ನ ತಂಡಗೆ ಯಾವುದೇ ಕಳಂಕ ತರದೇ ಉತ್ತಮ ಮಾರ್ಗದಲ್ಲಿ ನಡೆದು ನನ್ನ ವಿದ್ಯಾಭ್ಯಾಸವನ್ನು ಪೂರಣಗೊಳಿಸಿ ಅವರನ್ನು ಒಂದು ಮಗುವಿನಂತೆ ನಾನು ನೋಡಿಕೊಳ್ಳಬೇಕೆಂದು ನನ್ನ ತಂಡಯ ಕನಸು ನನಸು ಮಾಡಿ ಅವರ ರಣ್ಣಿನಲ್ಲಿ ಅನಂದ ನೋಡಿದಾಗ ನನಗೆ ನನ್ನ ಬಡುಕು ಸಾರ್ಥಕ. ನನ್ನ ತಂಡಯ ಪುಟ್ಟ ಜಗತ್ತಿನಲ್ಲಿ ನಾನು ಒಬ್ಬ ರಾಣಯಂತೆ ನನಗೆ ನನ್ನ ತಂಡಯ ಅಕ್ಷರ ಸಾಕು ನನ್ನ ತಂಡಯ ವೃತ್ತಿತ್ವ ನನ್ನ ಜೀವನಕ್ಕೆ ಆದಶ್ರೀ.

ಭಾಗ್ಯಶ್ರೀ ಎಂ ಹಾಟೆಲ್. 3<sup>rd</sup> CSE

## NATYA

BHA- Bhaava RA- Raaga THA- Thaala

Bharatanatyam, adding life to the music by uniting our souls with the rythm. Bharatanatyam is the mother of all the dance forms. Expressions, makeup, jewels adds beauty to the rythm of the music.

We having two different souls and dreams have now joined our hands together in the 'ART OF DANCE'

Dance not only gave life to our friendship and bonding but also to another variety of rythm. Catching on to that variety, we started our journey through the

fusion on classical dance where we decided to tap our feet to the beats of classical fusion. Dance gave us an unique identity to stand apart among the crowd. It added more joy and fun to our life when we had our battalion of besties and buddies travelling along with us during all our steps forward.

We always had their presence and guidance in deciding the necessity and requirements of our dance.

Just like how the vibration of our 'gejje' increases in every single move, even our passion increases on our forte.

Feel the emotion in every swing and aspire the enchantment. Replete the beats of your word with dance through expressions to the world and make a bold move.

-JHANAVI.N

-KAVITHA.K  
[ CSE 3 'A' ]

## A BROKEN SOUL

Each day is like a Nightmare,  
I spend my life in despair  
I fear death no more  
coz I'm already drenched  
In sorrow's shore  
I wish time could've reminded A bit.....  
So that I wouldn't have faced  
all this shit!!!

Now I feel so abandoned  
With my heart so heavy and Hardened  
my world is filled with desolation  
where nobody understands my commotion!!  
I 've got hell lot to say...  
But before all that,  
Do I deserve a life this way?

Triveni Kolukuluri, 5<sup>th</sup>

## THE UNFINISHED STORY

World filled with wingspan hearts, many happy, many innocent,  
Some jump in to reach the other heart, some hearts  
Away from some minds.  
Some of them live in houses and some in the street  
“Once upon a time, this was my kingdom” so told hearts are wandering with fractured minds who cannot find a map.  
Many hearts are the heavy minds of bitter memories in nature's rotating cycles.

Living in warm walls of a house amidst of the cold.  
If you see hearts with boil of insults,  
On the other hand you see the egoistic minds of power.  
If you see hearts with greedy needs on the other hand you see a purest heart willing to fulfill just it's essential needs.  
In the few places where the hearts are willing to forgive the cheater,  
On the other hand the hearts are stoned.  
Some dead hearts, some living. These are just heart boggling stories ...

Vaishnavi Ram J , 3rd ISE

## सपनों को उड़ान भरना है ।

सपनों को उड़ान भरना है ।  
जिंदगी को मुकाम करना है ।  
शाखों के पत्तों की तरह ,  
झाड़ के फिर से खिलना है ।  
सूरज के किरणों की तरह ,  
खुब को बिखेरना है ।

चाहे कोई कितना भी रोक ले,  
अब तो डिटे रहना है ।  
उन धुधली राहों में ,  
खुद का मंजिल को ढूँढना है ।  
कुछ इस तरह खुद को मुकम्मल करना है ।

Sai Sudha, 7th, ISE

## JOKES

When we put stone in water why does it sinks?  
Because the stone doesn't know how to swim  
A conversation between son and Dad  
Son: dad have you gone to Egypt  
Dad: no, I haven't. Why my son?  
Son: without going to Egypt how did you get my mummy!!

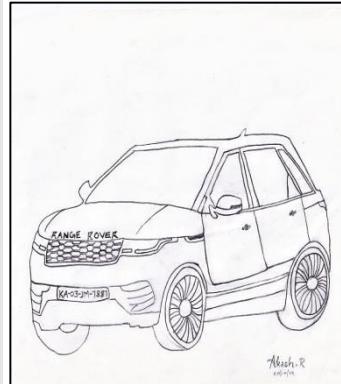
What is the difference between a fly and mosquito? A mosquito can fly  
But a fly cannot mosquito  
A boy had a love failure in his life. So, he planned to commit suicide. So, he hanged himself in a fan. But He did not die. Why?  
Because he hanged himself to a table fan...

Caleb Joshua, 3<sup>rd</sup> CSE

## LALITHKALA



Aishwarya S, 3<sup>rd</sup> CSE



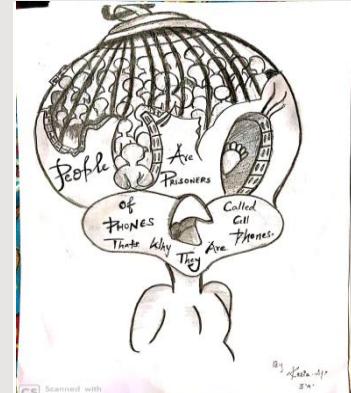
Akash R, 3<sup>rd</sup> CSE



Chaitanya A, 3<sup>rd</sup> CSE



Kavitha K, 3<sup>rd</sup> CSE



Kesi Aji, 3<sup>rd</sup> CSE



Sai Sudha, 7<sup>th</sup> B



Puroshotham Kumar, 3<sup>rd</sup> ISE



Tanuja K, 3<sup>rd</sup> ISE



Likitha M B, 3<sup>rd</sup> ISE

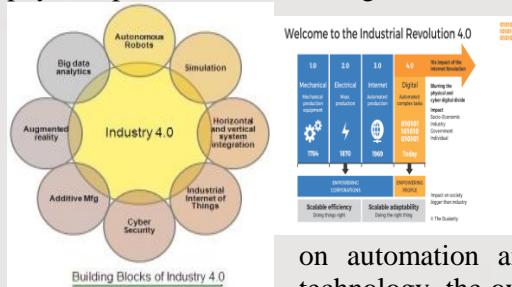


Tanuja K, 3<sup>rd</sup> ISE

# ZAKYATA

## INDUSTRY 4.0

A revolution an evolution that occurs rapidly and massively leading to a fundamental transformation of society. The economy that had been based on agriculture and handicrafts is transformed into economies based on large-scale industry by the Industrial Revolution, by adopting mechanized manufacturing, and the factory system. New machines, new power sources, new technologies and new ways of organizing work made existing industries more productive and efficient. The First industrial revolution is the beginning of factory model, introduced the efficient mechanization of manufacturing leveraging mechanical tools fueled by water and steam power. The Second Industrial Revolution, also called as the Technological Revolution was a phase of rapid industrialization driven by electricity and involved expansion of industries and mass production with technological advances. The Third industrial revolution known as Digital revolution introduces the use of digital equipment by the development of computers and information technology to automate an entire production process without human assistance. The Fourth industrial revolution i.e Industry 4.0, leverages technological advancements in both the physical and digital world to increase manufacturing capability and efficiency. It introduces Cyber-Physical Systems into the manufacturing world and leverages the internet as a key media for sharing and collecting information, as well as driving distributed, intelligent decisions back to physical processes, Introducing a Smart ecosystem.

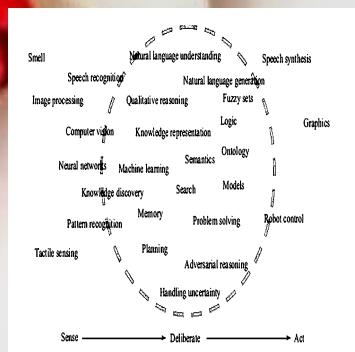


Industry 4.0 indeed focuses on Smart Equipment that can interact together and make real-time, expert and aware decisions. Those Smart equipment are integrated which work together to give life to Smart Factories and in turn, Smart Manufacturing Processes.

Where-as the Industry 3.0 focused on automation and simplification of processes thanks to the digital technology, the overall control of the process was still heavily centralized and human driven. The Fourth Industrial Revolution's technologies, such as Artificial Intelligence(AI), Genome editing, Augmented reality, Robotics, and Additive mapping (3-D printing) , are rapidly changing the way humans create, exchange, and distribute value. We are currently implementing the Industry 4.0 by the application of information and communication technologies to industry. It is based on the Third Industrial Revolution. Computer technology connected Production systems are expanded by a network connection and have a digital twin on the Internet so to speak. Together allow communication with other facilities and the output of information about themselves. This will be the next step in production automation. The people, components communicate each other via a network. Principles in design of Industry 4.0 are Inter operability among the components, Decentralization in decision making, Service orientation, Modular manufacturing opportunities. The key components of Industry 4.0 are Cyber physical systems, Internet of things(IoT), Industrial Internet of things(IIoT) , Internet of Service Big data and analytics, Autonomous Robots, Advanced simulators , Horizontal and vertical system integration, Agile and Anticipatory Cyber security, Advance Hybrid cloud and Virtualization , Additive mapping (3 D Printing ). The main benefits of Industry 4.0 to production lines and business are Improved Productivity, Improved Efficiency, Increased Knowledge Sharing and Collaborative Working, Flexibility and Agility, Makes Compliance Easier, Better Customer Experience Reduces Costs, Creates Innovation Opportunities. Higher revenues, Increase profitability, Raise global income levels and improve quality of life for the population. There are some challenges in Industry 4.0 like Cyber Security and privacy threats (Securing the Network Against Cyber Threats), Identifying and Correcting Misconfigurations, Preventing Operational Disruptions, Social issues and Impact on society, Skill and education of workers, Initial capital cost.

Prof . Kemparaju N, HOD

## AN INSIGHT TO THE LATEST TECHNOLOGY: ARTIFICIAL INTELLIGENCE



The name Artificial Intelligence (AI) was first coined by John McCarthy, who along with Marvin Minsky and Claude Shannon the polynomial time by exploiting knowledge about the problem domain. Artificial Intelligence is a confluence of many disciplines. There are two distinct strands of AI activity: (i) a more cognitive approach, which seeks to understand how intelligent behaviour arises. AI provides a computational platform to test their ideas. (ii) This strand adopts an engineering approach and the goal is to construct intelligent machines. Hence AI draws upon ideas from many disciplines—computer science, philosophy, psychology, economics, mathematics as shown in figure 1.

**Figure 1: Inter-disciplinary of AI** There are different search algorithms such as uninformed search, informed search, Local search and adversarial search algorithms. Breadth first search (BFS), Depth first search (DFS), Iterative-deepening (ID) algorithms are examples of uninformed search. To process the search solution faster and more efficiently, we can use heuristic function. Best first search and A\* algorithms are examples of informed search process. Hill climbing, simulated annealing, genetic algorithms, ant colony optimization algorithm fall under the category of local search process. Adversarial search deals with game playing strategies which incorporates Mini Max algorithm, Alpha-Beta pruning etc. The few real-world applications of AI are Humanoid Robots, Alexa, Siri in i-phone, Google assistance, self-driving cars, games etc.

Dr. Anitha N, Professor

## HONEYBOT COMPUTING

As technology advances security plays a vital role where users can adopt different existing methods like assigning user id's, passwords, encryption, decryption and so on to provide protection to data. Network security is most challenging and covers variety of networks which includes public network, private network or combination of both. Network security can be involved in organizations, enterprises and other types of institutions. Honeybot is one of computer security mechanism to detect and give counter to unauthorized access. Honeybot can be deployed based on usage or action. Based on deployment, honeypots can be of two types

1) Production honeypot 2) Research honeypot

Production honeypot are very easy to deploy and focus on very limited information protection and are of low interaction, so they give less information about attackers. These are not preferred.

Research honeypot run to gather information and focuses mainly on research regarding threats that organizations face and tries to find solution for those threats. But these are very complex to deploy.

Based on design criteria, honeypots are classified as

1) Pure honeypot 2) High interaction honeypot 3) Low interaction honeypot

In pure honey pots the “bugtap” will be placed on honeypots link network .this bugtap keep track of activities of attacker. In high interaction honeypots the production system hosts different variety of services. Since different variety of services can be attacked by attacker, making producer to waste time in searching where exactly attack has happened.to overcome this, using virtual machine deploy several bugtaps on single physical machine. In low interaction honeypots instead of deploying several bugtaps on honeypot link, the bugtaps are placed only on services that are frequently requested. Honeybots are not meant for install and forget, it takes several steps to minimize the legal risks. Honeybots may have advantages but it also have disadvantages. The main disadvantage is finger print method can be in order to find data, which can cause additional risk of harming organizations.

Prof. Vandana, Assistant Professor

## **DEVOPS: A CULTURAL MOVEMENT IN IT**

DevOps got its name 10 years ago, and has grown into a cultural movement in IT. This philosophy encourages developers to move fast, experiment, and iterate. It has become intrinsically connected with digital transformation. The word ‘DevOps’ is a combination of two words ‘development’ and ‘operations’. DevOps is a culture which promotes collaboration between Development and Operations Team to deploy code to production faster in an automated & repeatable way. DevOps helps to increases an organization's speed to deliver applications and services. DevOps is about automation and speed. Innovation, accountability, and better employee experience are some positive side effects of DevOps journey. DevOps is a big switch from traditional IT culture; rather than having the dev and ops teams working separately, DevOps culture facilitates communication between them by having them share common goals. In DevOps, the Operations team is completely aware of the progress the developers are making. Operations team interact with developers and jointly develop a monitoring plan that caters to the IT and business needs. DevOps empowers developers to own, run, and manage the end-to-end delivery of an application or piece of software. It eliminates the confusion around ownership and drives team toward an automated, developer-managed infrastructure. DevOps is an approach to building and delivering computer software in which everyone works together. DevOps can be compared to a manufacturing assembly line. The idea is to design and build all the parts up front, in a way that allows all the pieces to fit together. For an assembly line to work, components must be designed to combine seamlessly. The folks who design and build engines must think about the chassis and motor mounts. The developers who write the business logic or the user interface must think about the database that stores customer information, the security that protects user data, and how it all operates when the service is exposed to what may be millions of users. DevOps comprised of the ingredients that can be adapted from other well-known practices and sources such as Lean, Agile, SRE, CI/CD, ITIL, leadership, culture, and tools. The secret behind DevOps is how these ingredients are blended and in the right proportions in order to increase flow and value to the customer. Ultimately, fast, agile, innovative teams are vital to business success, and a DevOps culture can help drive business. DevOps cultures provide stronger communication, set unified and transparent goals, and establish realistic timelines. By encouraging automation and standardization of processes, DevOps also can produce faster software development and fewer errors. Adopting a DevOps culture can be the competitive advantage your organization needs

Prof Shefali Arora, Assistant Professor

## **TOP ESSENTIALS TOOLS OF DATA SCIENCE**

Data science is a "concept to unify statistics, data analysis, machine learning. It uses scientific methods, processes, algorithms, systems to extract knowledge, insights from structured and unstructured data. The scope on data science includes Data engineer, analyst, Architect, scientist, application, infrastructure, enterprise architect and business Intelligence (BI) developers. The Higher ranked tools are Python, R, Jupyter Note Book, Tableau, Keras. 1. Python is object oriented, free open source framework tools to facilitates data analysis and visualization. Its best approach for developing web applications and its framework tools like, Django, Flask, Pyramid, Bottle cherrpy, GUI applications development tool kit like pyQT, pyJS, pyGUI, kivy, WXpython. It accomplishes artificial intelligence and natural processing task. It is a TDD (test driven development) approach to assess the application like complex scientific, numerical applications. 2. R is a primary tool for analytic industry which is in a state of art programming language due to robust graphical features. It is an open source, data visualization to design graph, barchart, scatterplots. 3. Jupyter notebook is an open source web application used to create and share documents that contain live code, equations, visualizations and narrative text. It is used for data cleaning, numerical simulation, machine learning. Jupyter notebook can also made to be run on cocalc online web service 4. Tableau is a data visualization tool used in business intelligence. Its gives mobile support and responsive dashboard, worksheets. The main motive of the tableau is company strategy to schedule or notify the reports. tablaeu imports data of all sizes and ranges , it translate queries into visualization and also used for managing metadata. 5. Keras is a deep learning of python in a neural network library .tensor flow is an open source library. It provides both high level and low level API's whereas keras provide high level API. It practices for reducing cognitive load. It is capable of running on top of TensorFlow, Microsoft Cognitive Toolkit, Theano, or PlaidML. Theano and TensorFlow allows to define and train neural network models in just a few lines of code.

Dr Nanda Ashwin, Professor

## CYBER SECURITY

Cyber security is that the follow of protective systems, networks, and programs from digital attacks. Cyber security is extraordinarily necessary as a results of state, military, corporate, financial, and medical organizations collect, process, and store new amounts of information on computers and totally different devices.. At a private level, a cyber-security attack could find yourself in everything from fraud, to extortion tries. These cyber-attacks are typically meshed toward accessing, changing, or destroying sensitive information; extorting money from users; or interrupting ancient business processes. The term cyber security is often used interchangeably with the term data security

SA number of the categories of cyber security threats are: • **Ransomware** may be a form of malicious software system. it's designed to extort money by interference access to files or the computer system until the ransom is paid. Paying the ransom does not guarantee that the files square measure recovered or the system restored. • **Malware** may be a form of software system designed to realize unauthorized access or to cause harm to a laptop. • **Phishing** is that the follow of causing deceitful emails that gibe emails from honorable sources. The aim is to steal sensitive data like mastercard numbers and login data. It's the foremost common form of cyber-attack. • **Cryptojacking** may be a trend that involves cyber criminals hijacking third-party home or work computers to “mine” for cryptocurrency. as a result of mining for desires large amounts of portable computer method power, hackers will build cash by in secret piggybacking on somebody else’s systems. • **StateSponsored Attacks** — on the far side hackers trying to form a profit through stealing individual and company information, entire nation states square measure currently exploitation their cyber skills to infiltrate different governments and perform attacks on essential infrastructure. Cyber-crime these days could {also be}is also a significant threat not just for the personal sector and for folks apart from the govt. and also the state as a complete. A successful cyber security approach has multiple layers of protection .• Technology is crucial to giving organizations and other people the computer security tools needed to protect themselves from cyber attacks. 3 main entities need to be protected: end devices like computers, wise devices, and routers; networks; and thus the cloud. Few most notable breaches from 2018 square measure. • In Sept, Facebook aforementioned that hackers exploited a network vulnerability that allowed them to realize access to user accounts, doubtless exposing the nonpublic data of nearly thirty million users. seem to be proof against cyber attacks. • MyHeritage, a family networking and family tree website, declared its own huge security incident in June 2018. Hackers were able to access the e-mail addresses and hashed passwords of users. • In March 2018, beneath Armour notified users of its in style MyFitnessPal app that hackers had accessed usernames, email addresses and hashed passwords of one hundred fifty million users. as luck would have it, payment data wasn't compromised. This incident provided another reminder that even the foremost common apps may not be proof against hackers. There is a severe shortage of Cyber Security professionals. The cyber crime epidemic has unfold rapidly in recent years, whereas firms and governments have struggled to rent enough qualified professionals to safeguard against the growing threat. This trend is anticipated to continue into 2019 and on the far side.

Prof. Teena K.B, Assitant Professor

## UNPAID DEBIT

Awakened from the deep slumber;  
By the chimes of birds,  
The moon, sun and the world;  
I saw through your eyes....  
By the love of your whisper;  
When I lay still and chill;  
Addicted to the heavenly music;  
Feeding on ample elixir....  
Slept on the archangel lotus laps;  
Tight in caring arms;

Under the warm feathers;  
Grewup as a human being.....  
Once my abode, now pale and weak;  
Glittering eyes, speechless amnesia;  
Tears rolling down dry cheeks,  
Revealing nothing but everlasting affection....  
Oh! mama! give me a chance;  
I beg, to be your mother;  
So as to repay my debt;  
I beg knees down....

Prof Geetha R, Assitant Professor

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION



FROM LEFT TO RIGHT →

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
<b>Row 1</b>					
1.	Prof. Priyadarshini A.S	Assistant Professor	13.	Prof. Abhilasha	Assistant Professor
2.	Prof. Jayanthi T.M	Associate Professor	14.	Prof. Kavitha	Assistant Professor
3.	Prof. Asha S	Assistant Professor	15.	Prof. Leena Kenath	Assistant Professor
<b>Row 2</b>					
4.	Prof. Anitha R	Associate Professor	16.	Mr. Manjunatha	Lab Instructor
5.	Prof. Navya	Associate Professor	17.	Mr. Somashekara	Office Assistant
6.	Prof. Sachin Sharma	Associate Professor	18.	Prof. Rajesh K	Associate Professor
7.	Prof. Yogesh G.S	HOD	19.	Prof. Rajesh L	Associate Professor
8.	Prof. Jayanthi Kumari T.R	Associate Professor	18.	Prof. Praveen Kumar	Assistant Professor
9.	Prof. Hemavathi N V	Assistant Professor	20.	Prof. Harshavardhan	Associate Professor
10.	Prof. Deepthi S	Assistant Professor	21.	Prof. Ayaz Pasha	Assistant Professor
11.	Prof. Madhushree	Assistant Professor	22.	Mr. Chethan Kumar	Lab Instructor
12.	Prof. Radhamani	Assistant Professor	23.	Mr. P Babu	Lab Instructor
			24.	Mr. Girish C.J	Lab Instructor



# UTKRANTHI

## ARTICLES

### 5G THE NEXT BIG THING

In the last few years there is a lot of changes in mobile communication technology. Every generation has new features when compared to previous generation. In 1G technology, only voice communication was possible. In 2G technology digital signals are used to transmit the data signals. Along with voice communication, text messages are also possible in 2G technology. In 3G we can send pictures, email and video calls are possible. 4G has more features when compared to previous generation. In 4G we can download movies in few minutes, and video conferences are possible. 5G is fifth generation of mobile communication technology. Data speed of 5G is 100 times faster than 4G. Previous generations had very low frequency range, whereas 5G has very high frequency. Due to higher frequency the data is transferred very quickly. 5G has advantage of millimetre waves. But these millimetre waves cannot travel through buildings or any other things. To overcome these limitations of millimetre waves, small towers are introduced. 5G Wi-Fi cannot travel like 4G Wi-Fi because 4G has very low frequency when compared to 5G. Due to higher frequency, 5G has more radiation when compared to other generation. Radiation may effects birds, animals and humans.

Macharla Sri Lakshmi

## ACTIVITIES

### WORKSHOP ON PCB AND EMBEDDED SYSTEMS



Two days hands-on workshop on PCB design was conducted during 21<sup>st</sup> & 22<sup>nd</sup> of Feb '2019 for the benefits of students to get the practical exposure on the design aspects of latest electronic circuits. PCB is an acronym for printed circuit board. It is a board that has lines and pads that mechanically supports and connect electronic components through conductive tracks. A PCB allows signals and power to be routed between physical devices. **Dr. Rajesh L** and **Prof Praveen Kumar K C** Coordinated the event.

### ONE DAY WORKSHOP ON 3D PRINTING

3D printing workshop was conducted by Department of Electronics and Communication on 19<sup>th</sup> August 2019 in collaboration with East Point IEEE student branch & FELCOM , department forum for Electronics and Communication. It gave a practical exposure for the student community regarding 3D printing and its application. Our honorable CEO, Mr. Rajeev Gowda had taken special interest in the workshop & had graced the event with his presence.



He also tried one 3D model in the 3D printer. Using 3D printing technology, 3D portrait of Principal Dr. Prakash S was also done. The resource persons were Mr. Vamshi & Mr. Prem Kumar from reputed company named “WOL3D” with branches all over India. Prof Shivanand of Mechanical Engineering department gave technical talk on 3D Printing. Workshop on 3D printing was a grand success in igniting minds of students towards 3D printing technology which is the trend for future engineering. Event was coordinated by Dr Jayanthi Kumari T R, Prof. Anitha R and Prof. Rajesh K .

### TECHNICAL TALK ON PRODUCT DESIGN AND DEVELOPMENT



Technical talk on “**Product Design And Development**” was held in the department on 29th Aug’ 2019. It empowered student and teaching community on the latest cutting edge technologies related to Machine Learning and Artificial Intelligence in the product development. The Resource person was **Mr. Kishore Kumar Sharma** from Robert Bosch Engineering (RBEI). **Dr Prakash S**, Principal EPCET had graced the event with his presence. He explained the students about the latest technologies related to Product Design and Development.

### ONE DAY HANDS-ON WORKSHOP ON ARDUINO FOR BEGINNERS

The Department had organized a one day hands on workshop on Arduino in association with East Point IEEE student branch (EPISB) for 3<sup>rd</sup> Semester ECE Students on 25<sup>th</sup> Oct’ 2019 .



Resource persons were **Dr. Aravind B N** , Prof & Head , Dept of ECE, RIT, Hassan and **Prof .G S Nandeesh**, Asst Professor Dept of ECE ,KIT, Tiptur . Students were given hands on training to write and upload the codes to the board. **Dr Prakash S**, Principal EPCET had graced the event with his presence. Principal encouraged the students to start working on mini projects that can be used to solve the social problems. Students were advised to work on real time projects in future. **Prof. Asha S** and **Prof. Rajesh K** coordinated the event.

## STUDENT VISIT TO INNOVATION FESTIVAL 19 CONDUCTED BY VISVESVARAYA TECHNICAL MUSEUM



Students visited innovation festival 2019 conducted by a premium organization Visvesvaraya museum, Bangalore. Students got practical exposure on the latest trends in the technology. Social responsible projects were exhibited from the students of various colleges. Innovators from all over India were present. Some of students and faculties had interaction among the media people and expressed their opinion about the technical fest and project exhibition. It also provided a platform for the entrepreneur's to show their innovative products. Students were accompanied by **Prof Yogesh G S**, **Prof Leena K** and **Prof Deepthi Chamkur V**. Social media part of the event was taken care by **Prof. Abhilasha**.

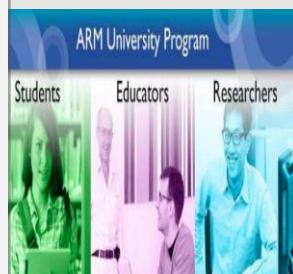
## ACADEMIC ALLIANCE PROGRAMS & CENTRE OF EXCELLENCE

Following Industry Sponsored Laboratories And Center Of Excellence has been Established by Department of Electronics and Communication Engineering

### 1. ARM UNIVERSITY PROGRAM



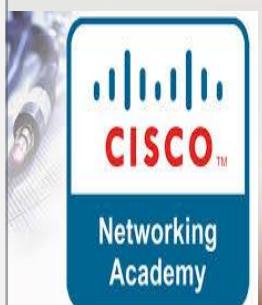
Arm university program is a unique program for preparing engineering students to upgrade their knowledge in the field of embedded systems. It also helps them to become entrepreneurs, and it creates a wide range of research opportunities. It helps to bridge the gap between the academia and industry. **Prof Ayaz Pasha** is the single point of contact for the above program



### 2. CISCO NETWORKING ACADEMIC ALLIANCE PROGRAM



Department of Electronics and Communication has established a tie-up with CISCO for Cisco Networking Academic Alliance Program, a career building program for learning. Self-paced courses are designed to take at any point in the career journey. CISCO networking academic alliance program helps students to gain relevant experience and build skills to match the industry requirement. **Prof Rajesh K** is the Program coordinator for the above academic alliance program.



### 3. TEXAS INSTRUMENTS INNOVATION LAB



Department has established innovation lab by Texas instruments. It is boon for students to get exposure on latest technologies related to DSP and IOT. Dr Rajesh L is the program coordinator.

## REFLECTION PAPER

### KEYSIGHT MEASUREMENT INSIGHT SEMINAR

Seminar on 5G technology conducted by Keysight technologies was attended by **Prof Asha S** and **Prof Madhushree N Kumar** of ECE dept. Keysight Technologies is an American company that manufactures Electronics Test & Measurement Equipments and Software. The talk was based on the emerging techniques related to 5G such as challenges in mm wave , massive MIMO, beam forming for 5G followed by their product demonstration. The main focus of the seminar was on the promotions of their products, 5G library packages and design of their products. The advances in next generation technology that enables the evolution of 5G and autonomous vehicles was discussed. Keysight's products include hardware and software for benchtop, modular and field instruments. Instruments include oscilloscopes, multimeters, logic analyzers, signal generators, spectrum analyzers, vector network analyzers, atomic force microscopes (AFM), automated optical inspection, automated X-ray inspection (5DX), in-circuit testers, power supplies and handheld tools. In addition, it produces electronic design automation (EDA) software. It mainly serves the telecommunications, aerospace/defense, industrial, computer and semiconductor industries.

MEDHA

## ARTICLES

### HUMILITY IS THE MOTHER OF ALL VIRTUE

Humility is a quality of having a modest view of one's own importance. It is the status of being humble and meek. It is the greatest among all virtues known to humankind. It is self-effacing and denial of self-importance. It is an anti-thesis of arrogance and false pride. It is a law of nature, that people who are strong and virtuous inside always remain humble outside. Arrogance and pride are the worst of evils and surely lead to destruction. Mythology has always taught us that good forces like humility triumph over evil. True humility is a fascinating quality as it reconciles to contrary attributes accepting one's own limits and also being audacious enough to venture oneself out of one's comfort zone. Humility sprouts from the heart of pure soul. It is never practiced for false benefit. It spreads simplicity harmony and contentment. Humility is humanity. Humility is divinity. " The best are those who live in humility that bring to life, greatness. Those who have this in plenty are blessed and always stand out as the very best."

Shilpa. P, 3<sup>rd</sup>

## POEMS

### SMILE

When oppressed or depressed  
When deeply distressed,  
Under a mountain of worry,  
Just smile.  
When wrongly criticized,  
Ridiculed or slandered,  
Don't be sour or bitter,  
But smile.

When tragedy strikes with its might,  
And dearest ones depart,  
Do cry for a while,  
Then smile.  
It's magic cures you my friend,  
And keeps your mind safe and sound,  
All years around  
Smile, ever smile.

Raksha P S, 3<sup>rd</sup>

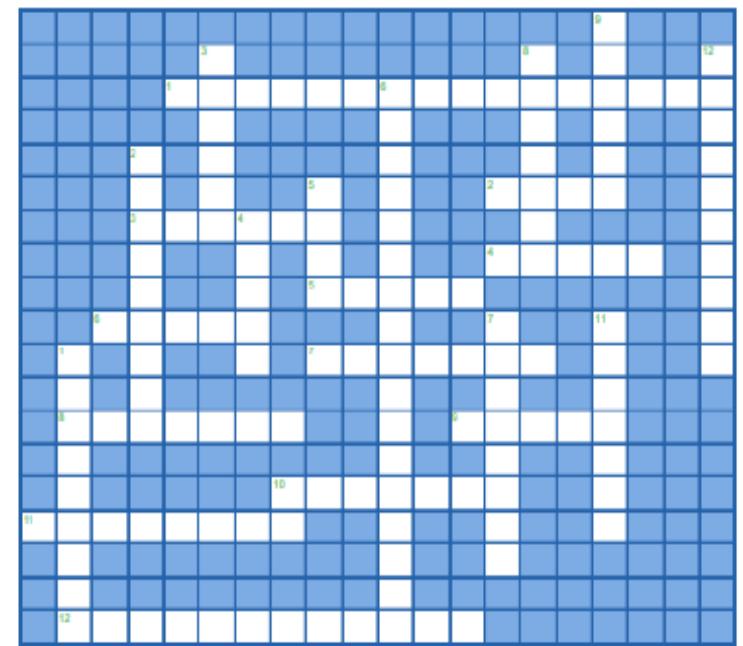
## LALITHKALA



Pallavi K V

## ZAKYATA

### TECHNICAL CROSS WORD



#### ACROSS

1. Two resistors connected together across a power supply (9,7)
2. Process used to remove unwanted copper from a PCB (4)
3. Colour band used to indicate the number 7(6)
4. Colour band used to indicate the number 0 (5)
5. Connects the components together on a PCB (5)
6. A component which allows current to flow only in one direction (5)
7. Makes a sound (7)
8. A collection of components connected together (7)
9. The L in LED (5)
10. Flows through a circuit (7)
11. Electronics that works with real voltage (9)
12. Type of capacitor which is polarised (12)

## DOWN

1. Shape of the schematic symbol for a resistor (9)
2. Stores charge (9)
3. Electrically joins components to a PCB(6)
4. Energy that allows the electronics to work (5)
5. Check the board works, after construction (4)
6. A chip/ part with two rows of pins ( 10,7)
7. Component with coloured bands to determine its value (8)
8. Something that can only be true/false, 0 or 1 (7)
9. Used to turn things on and off (6)
10. Letters used to mark commercial electronics sold in Europe (2)
11. Measured across components such as batteies (7)
12. A component that acts like an electronic switch (10)

Prof. Abhilasha

## 4G SHAPED WIDE BAND PATCH ANTENNA FOR WIRELESS APPLICATIONS

With low cost and ease of fabrication Micro-strip patch antennas are one of the popular choices of researchers for wireless applications. The typical ‘4G’ shaped wide band antenna is designed by using a low cost easily available FR4 epoxy as a substrate having dielectric constant of 4.4. The antenna has been fed by direct probe feeding method which uses a 50 ohm micro strip line. The parametric analysis of parameters like return loss, directivity, bandwidth, gain and VSWR of patch antenna with 4G shape have been analyzed using high frequency structure simulator (HFSS) software tool. The return loss and radiations patterns are observed to be of moderately Omnidirectional in nature with moderate gain and wide band frequencies suitable for wider wireless applications. The size of antenna is 30mm×32mm×1.6mm, which has been printed on FR4 substrate. As the designed antenna has a wide band and the results are good enough with  $VSWR < 2$  for the required frequencies. The designed antenna covers all the 5.2/5.8GHz WLAN IEEE operating bands including Wi-max (3.5/5.55GHz) and Radio altimeters (4.2 GHz). The wide band can be seen from 3.04GHz to 6.19 GHz which includes a special band useful for ISM WLAN 5.2/5.8 GHz and RFID Band (5.75 – 5.85 GHz).

Prof. Deepthi Chamkur V

## TECHNICAL ACHIEVEMENT



Indian Institute of science (IISc) had organized a Reimagine Health Hackathon on 13<sup>th</sup> and 14<sup>th</sup> of July 2019. Out of 60 members selected from all IITs, various reputed institutions and companies like Robert Bosch, the team headed by **Prof Leena K** of ECE department won 1<sup>st</sup> prize in the event. Reimagine Health Hackathon 2019 was the ultimate hackathon with focus on Geriatric issues where stake holders viz, doctors, innovators, entrepreneurship advisors, regulatory & compliance consultants, social scientists and software developers had participated. The Organizers of the event were Geriatric Healthcare Technology Business Incubator, Centre for Product Design and Manufacturing, IISc with support of Govt of Karnataka (GoK, KTech).

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



FROM LEFT TO RIGHT  
→

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
1.	Prof. Gayathri V	Assistant Professor	6.	Prof Avinash B C	Assistant Professor
2.	Prof Sunitha L	Assistant Professor	7.	Prof Vasavi K	Assistant Professor
3.	Prof Paramita B S	Assistant Professor	8.	Mrs. Karleena N	Lab Foreman
4.	Prof Akshatha G	Assistant Professor	9.	Mrs. Kalavathi	Attender
5.	Prof. Ganapathi D M	HOD	10.	Prof. Anandhi G	Assistant Professor



# UTKRANTHI

## TECNICAL ARTICLES

### THE MAGICAL TOUCH

Remember those days when we so eager to watch all those magic shows, magical series, fantasy movies, and we were all great fans of the Harry potter series.....we always wondered how they could move things, make them disappear, turn them ON and OFF, open doors with just a touch or just a swish and flick of the wand could do it all. We envied them, we desired and wished to do all those magical things. But we couldn't...Well....how about I tell you that you can do it all with just a touch?? Confused!!...well don't be....because all our wishes and dreams have come true...we can do all      things which we dream of with just a touch....but along with the magical touch we also need a    magical spell to do those magical things. Don't we? Well....the magical spell is "IOT". What is "IOT-INTERNET OF THING". The internet of things (IoT) is a concept that describes the idea of everyday physical objects being connected to the internet. In the Internet of Things, the connected devices should be able to identify themselves to other devices. Simply put, this is the concept of basically connecting any device with an ON and OFF switch to the Internet or to each other. This includes everything from cell phones, coffee makers, washing machines, headphones, lamps, wearable devices and almost anything else you can think of or basically – Internet of Things (IoT) is a concept where "Things can talk to other Things!" In 1999 Kevin Ashton, then at P&G, coined the term 'Internet of Things'. Any device, if it has an on and off switch then chances are it can be a part of the IoT. Very often the connected devices will have an IP address. With Internet Protocol Version 6 (IPv6), assigning an IP address to billions of devices has become very much feasible. Examples of 'things' which can be connected to internet include: Connected Wearable – Smart watches, Smart glasses, fitness bands etc. Connected Homes – connecting household appliances to the network. Connected Cars – vehicles that are connected to the internet. Connected Cities smart meters which analyse usage of water, gas, electricity etc, Operationally this means that we can define the Internet of Things as the seamless flow between the –

BAN (body area network): wearable, LAN (local area network): smart home, WAN (wide area network): connected car and VWAN (very wide area network): the smart city.

Driverless Cars: One of the most futuristic applications of IoT is the autonomous car. These cars that seem like a product from the near future actually exist today and are mostly under development or prototype stages. The cars don't have drivers and are sensible enough to take you to your destination on their own. Equipped with tons of devices like sensors, gyroscopes, cloud architecture, internet and more, these cars sense huge chunks of data on traffic, pedestrians, conditions of the road such speed breakers, potholes, corners and sharp turns and immediately process them at rapid speeds. This information is passed to the controller which takes corresponding driving decisions. Artificial Intelligence and Machine Learning are crucial aspects of driverless cars as well.

Wearable: You would be having a fair idea of the wearable devices that are part of the IoT ecosystem and we are sure you own a few products as well. Google's famous Glass project got shelved but that hasn't shut the probabilities of what the technology has to offer. From Fit Bits to smart watches, anything you're wearing that is connected to the internet is part of IoT. Through sensors again, these devices communicate data to give you most precise information on your needs.

Smart Homes: This is perhaps the most popular examples of IoT. Designed to provide you optimum security and convenience, smart homes ensure you come back to a paradise. Imagine controlling the lights of your home from remote to create an impression of you being inside for safety purposes when you are actually holidaying at the Maldives. Imagine turning on your air conditioner exactly 20 minutes before you reach your home for that perfect room temperature. Or, imagine recording your favorite show from wherever you are and watching it later. Convenience at its best right?

Moving a step further, Philips has also come up with smart illumination solutions that allow you to control the color of lighting and set different hues according to your moods. Simply, the Internet of Things is made up of devices – from simple sensors to smart phones and wearable – connected together. IoT is increasingly being used to define objects that "talk" to each other. IoT is a giant network of connected "things" (which also includes people).The relationship will be between people-people, people-things, and things-things. So now, realizing that you know pretty much about the magical spell and how to use it....let your imagination decide to cast that magical spell and give it that magical touch.

Keerthana.L.N, 5<sup>th</sup>

## AUTO SELECTION OF ANY AVALAIBLE PHASE IN 3-PHASE SUPPLY SYSTEM

Phase absence is a very common and severe problem in any industry, home or office. Many times, one or two phases may not be live in three phase supply. Because of this, many times some electrical appliances will be on in one room And OFF in another room. This creates a big disturbance to our routine work. This project is designed to check the availability of any live phase and the load will be connected to the particular live phase only. In developing countries like Nigeria, India, there is always the problem of Interrupted power supply as insufficient power is being generated to provide Consumers with continuous services and satisfactory quality. This leads to Constant power failure which in turn affects both the public and private sectors of the economy. Industries, banks, hospitals and so many other public and Private establishment all have major critical loads that needs to be powered at All times in order to carry out various processes efficiently. While most domestic loads are connected to single phase supply and if the Fault occurs in any one of the phases and the power is available in other phases, we cannot utilize that power. Automatic three phase selector is an integral Part of the process of power generation, allowing smooth and instant transfer of electric current between multiple sources and load. According to this paper, we have connected relay to the supply phase and also used microcontroller for Controlling all over the circuit and relay's condition in supply circuit. There are given by pass connection to microcontroller from phases. For this we have connected bridge rectifier circuit in that bypass way to give connection to microcontroller. The controller circuit senses the fault and according to that working of relay should be done.

Pooja. S

## CHOICE IS GREEN

Electricity is something that people can't live without in modern days, without electricity the world is filled with darkness. Without electricity people shed sweat in tropical regions, without electricity people will die due to cold in polar region. It takes hours to cook a tasty dish without electricity and takes too much of time to prepare notebooks. Without electricity there is no entertainment, amusements. Without electricity all our modern day electrical equipment's like computer, robots, mobiles and all other electronic gadgets comes to standstill position. I can tell along with food, clothing and shelter electricity is one of our fundamental requirements. The problem arise when there is shortage of electricity due to usage of power more than the requirement we fall in the darkness and fight to get electricity. Electric power is produced due to burning of fossil fuels such as coal, oil, natural gas and nuclear energy, which takes 87% of the share how energy is produced in the world. But this leads to pollution and its ill effects and fossils once burned are burnt forever. In contrast to this renewable energy supplies such as wind, solar, hydropower, geothermal, biomass and tidal energy are utilized which are almost inexhaustible and pollution free. The better way to have a safe environment and to reduce pollution is to use more accessible and convertible form of energy by adopting "Green power" by using renewable form of energy sources. In a developing country like India it is better to use limited electricity in which is already generated than wasting it un-necessarily. There are few tips which can be followed to avoid excessive wastage of electricity:

- It's better to turn OFF and unplug than standby when PC is not in use.
- Use low energy compact CFL than Incandescent lamps turnout the lights when not in use.
- Mobile phone charges could consume upto low if left ON after the mobile is completely charged. Switch OFF the chargers when not in use.
- Avoid keeping hot food in the refrigerator and set suitable temperature based on the load in the refrigerator.
- Look for BEE (Board of Energy Efficiency) sticker while purchasing electrical appliances, more the stars more the energy saving and vice versa.
- While using induction for heating choose a pan greater in diameter than the size of the burner which avoids heat loss and results in high efficiency.

Leelavathi, 7<sup>th</sup>

## **ANDROID BASED POWER SHARING OF TRANSFORMER WITH AUTOMATIC LOAD SHEDDING SYSTEM**

The transformer is a static device, which converts power from one level to another level. The main aim is to protect the transformer under overload condition by load sharing. Due to overload on transformer, the efficiency drops and windings get overheated and may get burnt. Thus by sharing load on transformer, the transformer is protected. This will be done by connecting another transformer in parallel through a micro-processor. The micro-processor compares the load on the first transformer with a reference value. When the load exceeds the reference value, the second transformer will share the extra load. Therefore, the two transformer work efficiently and damage is prevented. Main modules used here are sensing unit, control unit and microprocessor. An Android system is also used to inform the control station about switching. The advantages of the project are transformer protection, uninterrupted power supply, and short circuit protection.

Lakshminarayana P, 7<sup>th</sup>

## **ACTIVITIES**



The Department had organized and conducted National conference on “Recent trends in Energy Conservation in Power Systems” on 3rd April 2019. The Conference was presided by the Chief Guest Mr.S.Sridharan, General Manager, Power Grid Corporation of India Limited. Followed by the invited talks by the Resource persons: Tilak Pasupuleti, Director Energy Management Systems, Cosphi Electric India Pvt. Ltd, Mr.Manigandan.P, Head, Centre of Industrial Automation, Christ University Bangalore and Dr. Shukla, Prof. & Head, Dept. of Chemistry, EPCET , Bangalore.



## **INDUSTRIAL VISIT**



Department had organized one day industrial visit to 3MW PV SOLAR POWER PLANT at UTL Kolar on 08-03-2019 as a part of co-curricular activity. Students of 4<sup>th</sup> and 6<sup>th</sup> semester students visited site on Friday at 11.30 explored the station for 4 hours and got in-depth knowledge of installation of solar panel, maintenance, maximum power point tracking design, complete switchgears and SCADA operation.



# ARTICLES

## MEDHA

### ME, CHAI AND THE CHARMINAR.



Busy evening roads, crowd all around. It was a day before 'Ramdan'!

Heading closer and closer I managed to park my car and got down. I was curious, all I can see is crowd around moving ahead I found a famous and popular tea-stall with it's own traditional taste and the old vibes. Though I am not a big fan of chai, I brought a hot vapoury cup of chai with some osmania biscuits. Somehow I managed to find some place to stand. As I could sip my chai and look in the front, all I found was the beauty CHARMINAR!!!!!!

S Anusha 5<sup>th</sup>

### A DAY WITHOUT TECHNOLOGY

I guess the last time I was away from my cell phone or computer for more than two hours was about two years ago. Let me emphasize that two year ago! Sure, when I have an exam or an event, I reduce the use of me phone , but it is still within my reach , When I think about it I realize, that I had wasted a lot of time which I could have spent exploring the world, enjoying the weather or just sitting in silence , But no ,ever since got my first computer and phone , I have chosen to spend my free time scrolling , clicking away in a virtual world that may disappear in the blink of an eye .So ,I decide to change this habit of mine and go one whole day without technology .Here is how it went and this is what I learned. That morning, I woke up without my alarm, got fresh up and done with my chores .I have the habit of watching TV while eating. But I said to myself "No Pooja, you cannot give up that easily." Then I decided not to turn it on and advised my brother to do the same. Later I Went to the kitchen and helped my mom in working .I could see a question mark on my mom's face. She was wondering what was wrong with me, because I usually go to kitchen only when I am hungry. I spent hours with my mom. She told me about her students, her friends, and soon. Were we enjoyed each other's company. I didn't realize how soon time passed. It was 1.30pm already and it was time for lunch .Later I usually relax and listen to music, wearing my headphones .But I restricted myself from doing so and instead just went out and stood near my window and observed my surroundings. Then watered my plants, fed my love birds and played with my dog Bruno; it was so much fun. Later, when I started getting bored, my phone started attracting me towards it. Yet I did not even touch it. I went to my brother's room and found him lying on the bed & reading stories n joined him. When I looked at the clock, it was half past day already. As an alternative for my daily serial, I chose a book of Sherlock Holmes's, 'The Hound of the Baskervilles' and I admit, it is so damn interesting than any serial. Soon I had my dinner and went to sleep. It was a super cool experience. I realized that we adults need to start exploring our surrounding more and not hide behind the walls of our homes, because the world is such a beautiful and fascinating place. I always thought that technology gave me happiness, but that is far from the truth. And it also harms the person. The things that I experienced today are real and alive. Don't invest your life into something that is artificial and temporary. My Challenge to you: Try the same. Go a whole day without your laptop and phone. I bet you'll be surprised with the results.

Pooja.S,

## **MY LIFE-PHOTOGRAPHY**

"Photography for me is not looking, it's feeling. If you can't feel what you're looking at, then you're never going to get others to feel anything when they look at your pictures." --Don McCullin

Once photography enters your bloodstream, it is like a disease. Photographs are meant to make us understand what our lives mean to us. There is one thing the photograph must contain, the humanity of the moments. The best thing about a picture is that it never changes, even when the people in it do. Taking pictures is like tiptoeing into the kitchen late at night and stealing Oreo cookies. In photography there is a reality so subtle that it becomes more real than reality. Most things in life are moments of pleasure and a lifetime of embarrassment; photography is a moment of embarrassment and a lifetime of pleasure. Taking an image, freezing a moment, reveals how rich reality truly is. Photography is a way of feeling, of touching, of loving. What you have caught on film is captured forever... It remembers little things, long after you have forgotten everything. The heart and mind are the true lens of the camera. Life is like a camera. Just focus on what's important and capture the good times, develop from the negatives and if things don't work out, just take another shot.

Simon Pierce, 7<sup>th</sup>

## **MY MUSICAL JOURNEY IN EAST POINT**

The path that I followed on my journey toward college completion in EPCET, EEE and the likelihood of success of that beautiful journey is what I will be sharing with you all. 4 years of my musical journey in this amazing college where the college doesn't only support academics but also the unique talents of each student is really mesmerising. I had always aspired to achieve heights in the field of music just like CHESTER BENNIGTON. He has always been my inspiration, my role model. His songs has inspired me throughout my childhood and they inspire me now too. Linking Park will remain in all our hearts forever. I entered the college with the skills of just a singer and a guitarist. Later I started learning beat boxing one of the most interesting form of vocal percussion. Starting with regional songs, to listening and learning English songs, to learning the basics of DJ's, doing music production (edm). I have learnt and I am improvising all these qualities and skills from past 4 years. The last year of my college is where I spent most of the time in building the foundation of the music club, leading it, building the confidence of each and every member of the music club and uniting everyone and developing the skills and talents of my juniors as they are the face of EPGI today. I learnt all my leadership skills while leading the club, uniting the music family of EPGI. We won most of the awards in the fest. I was also the DJ for the fest where I got to showcase my DJ skill. SAMSKUTHI 2K19 was the most memorable fest of 4 years of my college life, it gave me the best memories wherein I got appreciated for all my work, my friends, faculties, everyone were happy with all the efforts our team had put in and appreciated all of us. All the hard work and efforts do pay off. Don't ever give up, never quit.

Hemanth T S

## **THREE PHASE SEQUENCE CHECKER FOR THREE PHASE SUPPLY WITH RELAY CIRCUIT**

During present age i.e. the age of industrialization, the machines used in the industries depends on the input three phase supply. In industries most of the machines are rotational machinery. The direction of rotation of three phase electric motors can be changed by changing the phase sequence of supply. And also the correct operation of measuring instruments like 3 phase energy meter and automatic control of devices also depend on the phase sequence. Phase sequence is the order in which the rotated voltage or current generated by 3-phase system attain peak or maximum value. The Effects of Wrong Phase Sequence may cause, Reverse Rotation of Motors, Reverse Pumping, Change in Efficiency of Motors, Dry Running of large power motors, Large running maintenance, Overheating of Motors and Burning of Motors Winding. Hence it is required to check incoming 3 phase supply sequence, if the phase sequence is in RYB sequence then the motor runs at normal condition. When phase sequence are reversed then a relay system operates and a three phase supply gets turns off. A micro-controller is used to incorporate the algorithm into it.

Kalpana G, 7<sup>th</sup>

## CARBON MONOXIDE DETECTION AND WARNING SYSTEM FOR FOUR WHEEL VEHICLE CABIN

We regularly read about several deaths due to carbon monoxide when people accidentally inhale large amount of poisonous gas. There is no system inbuilt in vehicles to warn people about the presence of Carbon Monoxide (CO) especially when so many exhaust pipes are only inches away from adjacent vehicles. Our project is to make a system which will detect and warn about the presence of Carbon Monoxide (CO) as well as Carbon Dioxide (CO<sub>2</sub>) in vehicle. A digital meter which displays the level of dangerous gas presence in the level of 1 to 25. It also has a warning system which alerts the drivers about the poisonous gas for two minutes then it automatically stops the engine and start the exhaust fan, when poisonous gas quantity reached normal level then automatically it starts the engine. If this system is implemented in real world it can save huge numbers of lives Worldwide. The system consists of 3 operations such as input, process and output. System uses a 9v battery. MQ-5 CO Sensor serves as input which detects CO gas and passes output voltage on to Arduino microcontroller. Microcontroller unit reads the output voltage from CO sensor and the program code burns and output voltage is converted into concentration of CO in ppm. LCD displays the concentration and alarm is triggered when levels of ppm is high. The Microcontroller acts upon waiting for 2 min, by closing the power windows, after the level of CO in air is reduced the power windows are rolled down and message is sent for the passenger during high level of ppm and also during safe period. Air Quality Monitoring (AQMs) will be found in more and more vehicles in the coming years. Manufacturers will demand reliable, low cost sensors that will be able to detect sub-ppm gas concentration levels. The systems will become smarter by automatically selecting ventilation settings and will provide both visual and audible alarm capabilities to prevent driver fatigue. Considering the high road fatality statistics directly attributed to fatigue, and the potential safety benefits AQM systems can provide, it is likely that AQM systems may one day find themselves as a standard vehicle safety feature similar to seat belts, air bags and anti-skid-brakes. Manufacturers will have to educate consumers on the merits of such systems as the benefits versus incremental cost must be justified. Advantages- 1. Real time project with instant gas level display. 2. Automatic engine stops when carbon monoxide is detected. 3. Automatic exhaust fan starter to throw poisonous gas out of vehicle cabin to save human life.

Aravind Prasad, 7<sup>th</sup>

## FEAR & ANGER

• **Fear**-Fear is a chain reaction in the brain that starts with a stressful stimulus and ends with the release of chemicals that cause a racing heart, fast breathing and energized muscles, among other things, also known as the fight-or-flight response. In the modern world, individuals often fear situations where the stakes are much lower, but their body and brain may still treat the threat as lethal. As a result, people may find themselves avoiding challenges that could benefit them in the long run or hanging back during social interactions for no good reason. ~Managing fears in today's world can be confusing when they don't necessarily correlate with a clear or obvious danger. • **Anger**-Anger is one of the basic human emotions, as elemental as happiness, sadness, anxiety, and disgust. These emotions are tied to basic survival and were honed over the long course of human history. Anger is related to the fight, flight, or freeze. Response of the sympathetic nervous system; it prepares humans to fight. Everyone knows the feeling. It's that rage that rises when a driver is cut off on the highway—and just wants to floor it and flip the bird. Anger doesn't dissipate just because it is unleashed; in fact, that can reinforce and deepen it. ~Like all emotions, anger should be monitored via self-awareness, lest it cause self-harm or erupt into hostile, aggressive or even violent behaviour toward others. • Relationship between anger and fear- Whenever you find yourself angry just ask yourself one question, what am I afraid of?. If you found yourself shouting at another driver then you might find that you were afraid of the damage that was going to happen to your car. If you found that you are angry at a lazy employee then most probably you will find that you were afraid that your company performs bad or that your own manager evaluates you poorly. If you were angry at someone who made fun of you then you might find that you were afraid of what people might say about you if you didn't take strong actions. • Solution- Anger & Fear Management is deeper than controlling your breath or counting from one to ten because unless you have a deep understanding of your fears you might be wasting your time on techniques that will never work. One of the vital steps for controlling anger is learning how to control your fear. Anger is sometimes caused by fear, control your fears and you will manage your anger effortlessly.

Aravind Prasad.S, 7<sup>th</sup>

# POEMS

## BALANCESHEET

Our birth is our opening balance,  
Our death is our closing balance,  
Our prejudiced views are liabilities,  
Our creative ideas are our assets.

Heart is our current asset,  
Soul is our fixed asset,  
Brain is our fixed deposit,  
Thinking is our current account.  
Achievements are our capital,  
Character and our morals are our  
Stock in trade.

Friends are our general reserves,  
Values and behaviour our goodwill.  
Patience is our interest earned, love is our  
dividend.  
Children are our bonus issues,  
Education is our patent.  
Knowledge is our investment,  
Experience is our premium account.  
The aim is to tally the balance sheet accurately,  
The goal is to get the best accounts award.

Naveen P V

### ನಾ ಕಂಡ ಕನಸು

ತಣ್ಣನೆ ಗಾಳಿ ಬೀಸುತ್ತಿತ್ತು , ಕೆಂಪು ಪರದೆಯು ಸ್ವಾಗತಿಸುತ್ತಾ , ಮಲ್ಲಿಗಯ ಸುವಾಸನೆ , ಗುಲಾಬಿಯ ಹಾಸಿಗೆ, ರೋಮಾಂಚನಿಯಾ ಮಂಜಳ ಹೂಬಿನ ನೃತ್ಯ. ಇವೆಲ್ಲವೂ ನನ್ನ ಆಕರ್ಷಣೆಯನ್ನು ಸೇಳೆಯುತ್ತಿತ್ತು. ನಿದಾನವಾಗಿ ಹೆಚ್ಚೆ ಹಾಕುತ್ತ ನಡೆಯುತ್ತಿದ್ದಾಗ ತುಂಬಿದ ಖಜಾನೆಯನ್ನು ಕಂಡೆ, ಚಿನ್ನದ ಚೊಂಬಿನಿಂದ ಜೇನು ತುಪ್ಪ ಹೂರ ಬರುತ್ತಿತ್ತು, ಇಂದನ್ನು ಕಂಡ ನನ್ನ ನಾಲಿಗಯ ಚಪಲ ಹೆಚ್ಚಾಯಿತು. ಎರಡು ಕುದುರೆಯ ಬೆಳ್ಳಿ ರಥವು ಬಂದು ನಿಂತಿತು. ರೇಷಿಪೆ ಹಾಸಿರುವ ಹಾಸಿಗೆಯ ಮೇಲೆ ರಾಜನಂತೆ ನಾನು ಹುಳಿತುಕೊಂಡೆ. ರಥವು ಶಾಂತಿ - ಸವಾತ್ಮ ನಾಡಿನತ್ತ ಸಾಗಿತು . ಹಕ್ಕಿಗಳ ಕಲರವ ನನ್ನ ಕಿವಿದುಂಬಿತು, ಎಲ್ಲಿಡೆ ಹೊಳೆಯುವ ವಜ್ರದ ಗುಂಡಿಗಳು, ಬತ್ತದ ಹೊಲದಲ್ಲಿ ಸವಿಗಾನ ಹಾಡುತ್ತಾ ಬೀಸುತ್ತಿರುವ ತಂಗಾಳಿ, ಗುಂಚಲಾಗಿ ನಿಂತ ಬತ್ತದ ತೇನೆಯು ಕೊಯ್ಲಲು ಸಿದ್ದವಾಗಿರುವುದನ್ನು ಕಂಡು ನನ್ನ ಮನಸು ಸಮಾಧಾನವಾಯಿತು. ಇದು ಪ್ರಕೃತಿಯ ಪರಿಣಾಮದಿಂದ ಅಷ್ಟೇ ಆಗದೆ, ಹಗಲಿರುಳು ಬೆವರರಿಸಿದ ರ್ಯಾತನ ಪರಿಶ್ರಮವಿದೆ ಎಂದು ನೋಡಿದವರು ಅರಿತುಕೊಳ್ಳಬಹುದು. ನಾನು ರಥದಿಂದ ಇಳಿದು ಗಾಜಿನಂತೆ ಹೊಳೆಯುತ್ತಿರುವ ನೀರಿನಲ್ಲಿ ಮುಖವನ್ನು ತೊಳೆದು ಪ್ರಕೃತಿಯ ಪವಿತ್ರತೆಯನ್ನು ಸೆವಿದು ನಿಂತೆ. ಇಂತಹ ನಿರ್ಮಲವಾದ ಜಾಗವನ್ನು ಸೃಷ್ಟಿಸಿರುವವರನ್ನು ಕಾಣಬೇಕೆಂಬ ತವಕ ಹೆಚ್ಚಾಯಿತು. ತಿಳಿಯುವ ಬಯಕೆ ಹೆಚ್ಚಾದಂತೆ ಅತಿತ್ತ ನೋಡುತ್ತ ಹೆಚ್ಚಿಹಾಕಿದೆ. ಕುತೂಹಲದಿಂದ ನಡೆಯುತ್ತಿದ್ದಾಗ ಸಂತಸದಲ್ಲಿ ಮಿಂದ ದ್ವಾರಿಗಳು ಕೆಳಳಾರಂಬಿಸಿತು. ದ್ವಾರಿಯತ್ತ ಮೆಲ್ಲನೆ ಹೆಚ್ಚಿ ಹಾಕುತ್ತಿದ್ದಂತೆ ನೂರಾರು ರ್ಯಾತರು, ಮಾಲಿಗಳು, ಕೂಲಿಗಳು ಮತ್ತು ಉರಿನ ಜನರಲ್ಲರೂ ಬಂದ ಲಾಭವನ್ನು ಸಂಮಾಲಿನಿಸಿತೆ ಅಂಚಿಕೊಳ್ಳುತ್ತಿದ್ದೀರು. ಪರಸ್ಪರ ಒಪಂಡದ ಮೇರೆಗ ಹೆಚ್ಚಿಪರಿಯಾಗಿ ಉಳಿದುದನ್ನು ನೆರೆಪುದೇಪಕ್ಕೆ, ಇಂದುಳಿದ ನಾಡಿಗೆ ಉಚಿತವಾಗಿ ತುಂಬು ಮನಸ್ಸಿನಿಂದ ಕಳಿಸಿಕೊಂಟ್ರು. ಇವೆಲ್ಲವನ್ನು ಕಂಡು ನಾನು ಅಚ್ಚಿರಿಯಿಂದ ನ್ನಿಂತೆ. ಇವೆಲ್ಲವೂ ಹೇಗೆ ಸಾಧ್ಯ? ತಮ್ಮ ಕೊಳೆನ್ನು ಬೇರೆಯವರೆಂದಿಗೆ ಅಂಚಿಕೊಳ್ಳುವ ಜನರನ್ನು ಕಂಡು ನಾನು ಆಶ್ಚರ್ಯಗೊಂಡು, ನಾನು ಅವರನ್ನೇ ದಿಟ್ಟಿಸಿ ನೋಡುತ್ತ ನಿಂತೆ. ಎಲ್ಲಿಡೆ ಪ್ರೀತಿಯ ಗಾಳಿ ಬೀಸುತ್ತಿತ್ತು, ದೇವಷಕ್ಕೆ ಮಾನ್ಯತೆ ಇರಲಿಲ್ಲ . ಪ್ರೀತಿ, ಮುಮತಿ ವಾತ್ಸಲ್ಯ ದಿಂದ ಎಲ್ಲರೂ ನೆಮ್ಮೆದಿಯಿಂದ ಬಾಳುತ್ತಿದ್ದರು. ಬಡತನದ ಪ್ರಶ್ನೆಯೇ ಉದ್ದುಲಿಸುವುದಿಲ್ಲ, ಏಕೆಂದರೆ ಆ ನಾಡಿನಲ್ಲಿ ಎಲ್ಲರೂ ಸಮಾನರು.ಹೆಚ್ಚು - ಕಡಿಮೆಯ ಜೋಡಿ ಕಾಣಾಗಿತ್ತು. ಸೂರ್ಯನು ಬಾನಿನೊಳಗೆ ಮರಯಾಗುತ್ತಿದ್ದಂತೆ ಎಲ್ಲರು ತಮ್ಮ ಗುಡಿಸಲಿಗೆ ಸೇರಿಕೊಂಡರು. ನಾನು ರಥವನ್ನು ಏರಿ ಹಿಂದಿರುಗಿದೆ. ಎಂತಹ ಸೈಹಜೀವಿ ಈ ಜನರು ಎಂದು ತೃಪ್ತಿ ಪಡುತ್ತಿದ್ದಂತೆ ಬೆಳೆಕು ಹರಿಯಿತು. ಕಣ್ಣ ತರೆದು ನೋಡಿದಾಗ ಅದೇ ನಾಲ್ಕು

ಗೋಡೆಗಳು. ಪ್ರಕೃತಿಯನ್ನು ಸವಿಯುವ ಕನಸು ಕನಸಗಿಯೇ ಉಳಿಯತ್ತದೆ ಎಂಬ ಆತಂಕದಿಂದ ನನ್ನ ಕೋಣೆಯಿಂದ ಒರಬಂದೆ.

ಇಲ್ಲಿ ಬಂತು ಎಂದರೆ ಹುಲೀ ಬಂತು ಎಂದು ಶೋರಿಸುತ್ತಿರುವ ವಾರ್ತೆಗಳು, ವಾಹನಗಳ ಹೊಗೆಯ ಮನೆಯ ಕಿಟಕಿಯಿಂದ ಬೇಸುತ್ತಿಕ್ಕು,

ದೃಂಬಂದಿನ ಜಂಜಾಟದಲ್ಲಿ ಏಂದ ಜನರು, ಜೀವನ ಬೇಸತ್ತ ಕಾಲೀಕರು, ಸುಳ್ಳು ಆಶ್ವಾಸನೆ ನೀಡಿ ಮತ್ತೆ ಭೇಟೆಯಗಾಗಿ ಇ

ವರ್ಷಕೆಂಬೆ ಮನೆ ಮನೆ ಸುತ್ತುತ್ತಿರುವ ಶಾಸಕರು, ಇವರ ಗೋಚಿನೊಂದ ಸಾಲು ಸಾಲು ನಿಂತಿರುವ ವಾಹನ ಚಾಲಕರ ಪರದಾಟ

ಎಲ್ಲವೂ ನನ್ನ ಮುಂಜಾನೆಯ ನ್ನು ಹಾಳು ಮಾಡಿತು.

ಮಾನವನಾಗಿ ನಾನೇನು ಮಾಡುತ್ತಿರುವೆ ಎಂಬ ಪ್ರಶ್ನೆ ನನ್ನ ಮನಸ್ಸಿನಲ್ಲಿ ಮೂಡಿತು. ಮನುಷ್ಯನು ತುಂಬಾ ಸಣ್ಣ ಅಸಾಮೀ ಇದನ್ನು

ಅರಿಯದ ಪ್ರಪಂಚವನ್ನು ನಾಶದೆಡೆಗೆ ಕರೆದೊಯ್ದುವ ಕೆಲಸ ಮಾಡುತ್ತಿರುವೆ ಎಂದು ನಾನು ಅರಿತೆ.

ಮಂಹುತ್ತಿಮನ ಹಾಗೆ ಬಾಳದೇ

ಬುದ್ದಿ ಜೀವಿಗಳಂತೆ ಬದುಕೋಣ.

ಜ್ಯೇಷ್ಠಿಂದ್ರ ಜ್ಯೇ ಕನಾರಟಕ.

## LALITHKALA



Tejaswini M, 3rd

## PHOTOGRAPHY



Keerthana, 5<sup>th</sup>

Monisha, 5<sup>th</sup>



Athul Sunil, 7<sup>th</sup>

## AVADHAAN



**Stephen George** from 7<sup>th</sup> semester of our department is one player of the EPCET cricket team which has played several cricket matches. A match between EPCET & EPMC held on 26<sup>th</sup> October 2019 and another match between EPCET & SEA College of Engineering held on 3<sup>rd</sup> October 2019 are few among them. Stephen is one player selected as Wicket Keeper from EPCET in the VTU Bangalore Central Zone Selections.....“CRICKET IS MY PASSION”

## ZAKYATHA

### INTELLECTUAL DISHONESTY AND ATTITUDE

The literates are damaging the world more than illiterates. Substantial evidence shows that literates led the world war, perpetuated the poverty. Human desires and his lucrative business had a great impact on environment charisma, just to fulfil his pleasure and comfort. Man created a crisis where his resources dearth and sold his heart to sordid boon (money) in return he is living in a desperate life. Increase in medical establishment led to invention of plenty diseases, where idea of placebo effect and quantum healing are forgotten. Statistical science leads to false dogma and inventions turns holistic science to reduction science where human lost his knowledge which was driven by his antiquity. Literates are differ from educated, literate will have a ability to read and write, where as “education is ability to think”. Education teaches compassion necessary to keep mind healthy (tranquil). Education is a practice of humanity which is very much required in the twenty-first century “an antidote to the behaviour of human to make him anecdote”. Now Scenarios are changed that man has no choice other than following a right dogma, man need to maintain credibility with the nature for his optimum benefit. Repeating any action over a period of time becomes habit, hobby continuous to become attitude. Human need to inculcate right attitude to benefit the world and himself. Knowledge and skill are the wealth of human, intelligence is measured with circumstance and every time attitude is tested, where attitude nourishes the skill and knowledge. An attitude of thought like “when moment mind turns towards the sin write yourself a deferred punishment”. When you encounter with dilemma “dispassionately stand outside and criticize your mind”.

Avinash B C, Assistant Professor

## **INDIAN ECONOMY SLOWDOWN- HOW TO HANDLE DOMESTICALLY**

Indian Economy is under severe recession, it's cyclical and it will recover after 2-3 years. Very important problem will be unemployment.

**Former RBI Governor Bimal Jalan.**

### **Dos and Don'ts when Economy Recesssion by Salaried and Middle Class Family People.**

<b>Sl.no</b>	<b>Dos</b>	<b>Don'ts</b>
1.	Take care of your existing Employment.	Invest in Business.
2.	Have Savings.	Spend Unnecessarily.
3.	First Invest in Gold.	Invest in Share Market
4.	Second Fixed Deposit.	Invest in Mutual Fund.
5.	Try to Close existing loans.	Take Personal loan.
6.	Use public transport or nearby places walk n go.	Use Car n Bike frequently.
7.	If required buy essential things with fund available in hand.	Swipe Credit Card.
8.	Cook food in home, watch old movies in you tube if required.	Go to Mall, hotels and Cinema theatres.
9.	Start Business with 0% Investment. Trust only your Skills to start business.	Start Business by borrowing loan and credit card swiping.
10.	If required buy when offer is given.	Buy when offer is given.

### **Conclusion:**

Think before spending. Have savings to handle at least basic needs.

Anandhi. G, Assistant Professor

## **BIO-POSITIVE FREE ELECTRONS IN EARTH (BAREFOOT WALKING AND RUNNING)**

Mother earth contains innumerable bio-positive free electrons which are human immune-boosters. The National Library of Medicine's online resource PubMed lists 7,021 studies and 522 review articles from a search of "antioxidant+electron+free radical". The influx of free electrons absorbed into the body through direct contact with the Earth is likely to neutralise reactive oxygen species and thereby reduce acute and chronic inflammation. When we insulate ourselves from those healthy electrons we are pushing ourselves towards illnesses. Walking in itself has now been shown to be a very healthy activity. The famous Ohasaki Cohort Study in Japan showed that walking regularly reduces the risk of premature mortality in addition to reducing one's medical bills in the long run. Now that the leading science journal Nature (2010; 463: 531) has published a good study that has shown barefoot walking in good light, Humans have engaged in endurance running for millions of years, but the modern running shoe was not invented until the 1970s. For most of human evolutionary history, runners were either barefoot or wore minimal footwear such as sandals with smaller heels and little cushioning relative to modern running shoes. We wondered how runners coped with the impact caused by the foot colliding with the ground before the invention of the modern shoe. Here we show that habitually barefoot endurance runners often land on the fore-foot (fore-foot strike) before bringing down the heel, but they sometimes land with a flat foot (mid-foot strike) or, less often, on the heel (rear-foot strike). In contrast, habitually shod runners mostly rear-foot strike, facilitated by the elevated and cushioned heel of the modern running shoe. Kinematic and kinetic analyses show that even on hard surfaces, barefoot runners who fore-foot strike generate smaller collision forces than shod rear-foot strikers. This difference results primarily from a more plantar flexed foot at landing and more ankle compliance during impact, decreasing the effective mass of the body that collides with the ground. Fore-foot- and mid-foot-strike gaits were probably more common when humans ran barefoot or in minimal shoes, and may protect the feet and lower limbs from some of the impact-related injuries now experienced by a high percentage of runners." Mounting evidence suggests that the Earth's negative potential can create a stable internal bioelectrical environment for the normal functioning of all body systems. Moreover, oscillations of the intensity of the Earth's potential may be important for setting the biological clocks regulating diurnal body rhythms, such as cortisol secretion. Human body is immaterial; it is energy vibrations, seen as a solid structure.

Avinash B C, Assistant Professor

# DEPARTMENT OF MECHANICAL ENGINEERING



FROM LEFT TO RIGHT →

No.	Staff Names	Designation	No.	Staff Names	Designation
<b><u>Row 1</u></b>					<b><u>Row 2</u></b>
1.	Prof. Jayasheel I Harti	Assistant Professor	11.	Prof. Subba Rao BS	Assistant Professor
2.	Prof. K Niranjan Rao	Assistant Professor	12.	Prof. Vinay Kumar HS	Assistant Professor
3.	Prof. Shivadasan	Associate Professor	13.	Prof. Abilash A	Assistant Professor
4.	Prof. Sahadeva GN	HOD	14.	Prof. Dinesh Kumar S	Assistant Professor
5.	Prof. Raghu Leela	Assistant Professor	15.	Prof. Ananth Padmanabha	Assistant Professor
6.	Prof. Murali Kumar I	Assistant Professor	16.	Prof. Girisha N	Assistant Professor
7.	Prof. Munendra CV	Assistant Professor	17.	Prof. Arjun CA	Assistant Professor
8.	Prof. H M M swamy	Associate Professor	18.	Prof. Santosh MS	Assistant Professor
9.	Prof. Santosh	Assistant Professor	19.	Prof. Ravi Kumar A	Assistant Professor
10.	Prof. Aswathnarayan	Associate Professor	20.	Prof. Anjan Babu VA	Assistant Professor



# UTKRANTHI

## ARTICLES

### UNDERWATER WELDING

Underwater welding is an important tool for underwater fabrication works. The first ever underwater welding was carried out by the royal British navy. There are 2 types of underwater welding mainly wet and dry welding. Wet welding is performed at an ambient pressure with the welder-diver in the water and no mechanical barrier between water and welding arc. Simplicity of the process makes it possible to weld even the most geometrically complex structures. The most commonly used technique is the shielded metal arc welding (SMAW). Wet welding coated with coated electrodes is considered to be the most Cheap and versatile method of operations in under water environment the electrode can conduct arc up to 100m. In water environment cooling rate in wet welds is much higher than that of dry welding. The operating temperature is between 500-800 degree centigrade. This causes a loss of ductility of weld material and heat affected zone (HAZ). Underwater welds contains high amount of porosity, the factors affecting the pores are water depth, electrode covering and arc stability. Dry welding is performed at an ambient pressure in a chamber where water has been displaced with air or gas mixture, depending upon the depth. Underwater dry welds in comparison with those obtained in wet conditions are of better quality, but large support equipment is required and is expensive. The estimated cost and time for dry welded repairs are twice that for wet welded repairs. Dry welding has an edge when it comes to wet welding in terms of depth. Dry welding operation can take place at 300m. Underwater welding is more difficult in comparison to that performed at open air because of high pressure, hydrogen content in weld metal and higher cooling rate. It is has been proved that increased pressure makes welding arc unstable and the presence of diffusible hydrogen and brittle microstructures in the welds can be the reasons of crack formation.

Koushik Prasad.V, 7<sup>th</sup> A

## REFLECTION PAPERS

### AVIATION

**Event Title:** Technical Talk on Aviation, **Event Date:** 24 August 2019, **Speaker:** Sri.Siddappaji B, Scientist, ADE & Dr. Ganga Reddy, DGM, HCL Technologies

The Department of Mechanical engineering, EPCET had conducted a technical talk on aviation to improve the technical knowledge of the students. A researcher from the DRDO Mr. Siddappaji. working in aviation specially in military unmanned aerial vehicle addressed the gathering. He pitched the importance of this unmanned aerial vehicle in the current trend of defense and mainly how a mechanical engineer is important to make future unmanned aerial vehicle technology possibly. He reminded us about aerodynamic (fluid dynamic) and material science which is a field of mechanical engineering. As the aerodynamic deals with the flow of air around the aircraft and also things like pitch, yaw and roll. As the unmanned aerial vehicle start getting faster and more important in daily use. Using material that have good strength to weight ratio becomes quit a necessary fact and in military a material that absorb Radar signal is a must. Even as the DRDO was started in September of 1988. Which is a bit later when compared to other country even then DRDO have made some amazing piece of technology like DRDO Abhyas, DRDO AURA, DRDO Fluffy, DRDO Imperial Eagle, DRDO Kapothaka, DRDO Lakshya, DRDO Netra DRDO Nishant, DRDO Rustom, DRDO Ulka. We had Dr. Ganga Reddy an industry expert and also an engineer who had more than a decade experience in aviation. Well he was here to show different path a mechanical engineer can take first off, he started off with aviation in the aircraft carrier where ropes are used to stop and start an aircraft as the run ways are quite small. He went into vending machines and ATM machine where strength and right number of things needs to come out then also specified with the moment of this objects to the user. Then he talked about medical field where mechanical engineer are used to design robotic arms for operation and diagnostic check-up. Later he talked about the software that are useful for a mechanical engineer for design and analyses like Designing software: AutoCAD, Creo, Solidworks, Alibre, Catia & Analysis Software: Ansys, Simufact.

Alan Paul A, 5<sup>th</sup>

### 3D PRINTING AND REVERSE ENGINEERING

**Event Title:** workshop on 3D Printing and Reverse Engineering, **Event Date:** 20th of September 2019,

**Speaker:** Mr. Vamshi CEO, WOL 3D and Mr. Prem Kumar Centre Head.

Mr. Vamshi shared about his career and experience, how his interest grew in 3D printing, importance and applications of 3D printing in the present world. Mr. Prem Kumar explained about 3D printing in detail, how it works, types of machines in 3D printing and materials that can be printed etc., and in addition Mr. Prem Kumar's teammates showed the practical working process in which students were made batch by batch so that it could be understood clearly, the models were made for practice of students, some students were given machines to print their names, design etc., some pre made models were displayed. 'The Innovative Ideas in human mind would have a growth when they can be made in reality' using 3D Printing humans ideas, designs of parts or machines can be tested by making a model. The 3D printing is a process of making three dimensional solid object from a digital input. The creation of a 3D printed object is achieved using additive processes. In an additive process, an object is created by laying down successive layers of material until the object is created. Each of these layers can be seen as a thinly sliced horizontal cross section of the eventual object. 3D printing enables us to produce complex shaped using less material than traditional manufacturing methods. It was a very important work shop for the students , students were increased in their knowledge about 3D printing process, its importance, needs and requirements , every doubt was cleared regarding 3D printing by Mr. Prem Kumar and his teammates and at last the HOD mechanical department Dr.Sahadeva.G.N thanked the guest , delivered vote of thanks and ended the event.

Abdul Rafi, 5<sup>th</sup>

## ACTIVITIES

### HANDS ON WORKSHOP ON INTERNAL COMBUSTION ENGINE



Workshop on IC Engine was conducted in the department of Mechanical Engineering for the final year students to expose the students in understanding the working principal and construction of the engines. The students successfully dismantled the engines and then studied the different parts and assembled the engine back to its initial state.

Activities carried out are shown in the photos above clockwise from left: The dismantled engine, students assembling the engine after dismantling, students dismantling the engine, students guided by professional about the engine.

### 3 DAYS WORKSHOP ON HYDRAULICS AND PNEUMATICS



Every year the final year students are taken to the hydraulic and pneumatic workshop in Mysore organized by the VTU and Bosch Rexroth group. The students are trained for three days in the centre on the different valves and are made to design the hydraulic and pneumatic circuits and execute it on the workstations. This gives the students a better understanding of the subject and helps in applying the theoretical knowledge into practical applications.

### A TECHNICAL TALK ON AVIATION



On the 24th August 2019 a technical talk was arranged on aviation by the Department of Mechanical Engineering, EPCET. Two chief guests Sri. Siddappaji. B and Dr. Ganga Reddy both experts in their domain were invited for two

First session by Sri. Siddappaji. B, Scientist E. ADE shared his experience in the field of drone technologies and the different types of drones and its capabilities and the challenges ahead for the Indian drone programs. Second session by- Dr. Ganga Reddy. C, DGM, HCL Technologies speaker interacted about the application of the CAE in different applications with practical examples and how the modern day challenges are addressed by the cutting edge technologies

### WORKSHOP ON 3D PRINTING



On the 20<sup>th</sup> September 2019 the Department of Mechanical Engineering had conducted workshop on 3D Printing and reverse engineering, the workshop was presided over by Mr. Vamshi CEO, WOL3D and his team. Dr. sivadasan also joined and discussed the different techniques and opportunities in 3d printing Followed by a questioning session by the students and a live model was also created during the workshop.

## INDUSTRIAL VISIT TO RAIL WHEEL FACTORY



As the part of minimizing the institutional-industrial gap and delivering deployable professional an industrial visit was organized to Rail Wheel Factory by the Department of Mechanical Engineering, EPCET. The students were briefed about the factory and then were taken for the tour the factory and were shown the different departments and layouts design in the factory to understand the structure of an organization

## INDUSTRIAL VISIT TO ACC LIMITED

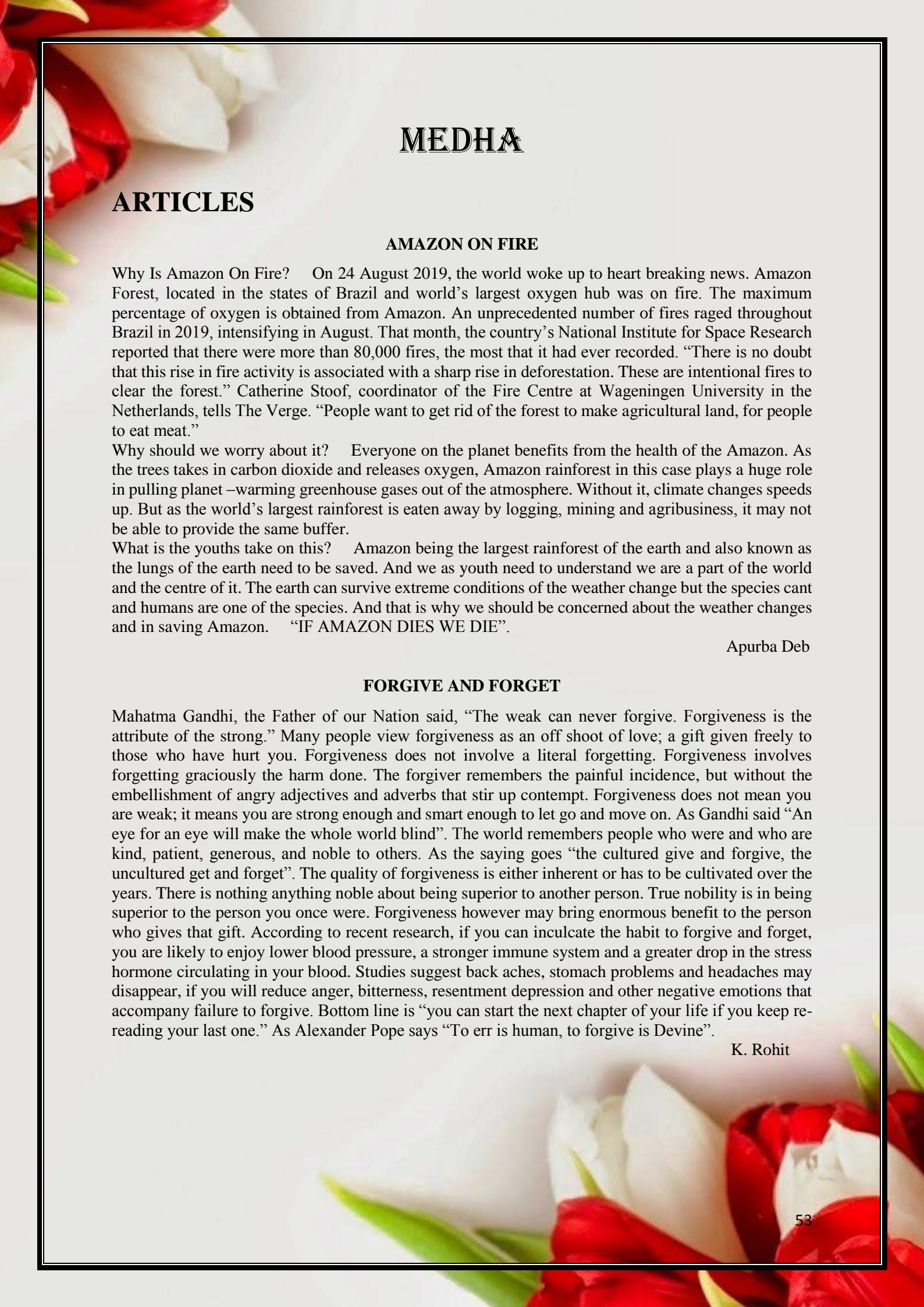


The Department of Mechanical Engineering, EPCET, organized an industrial visit for the fifth semester students to ACC limited. The students were exposed to the working environment, the challenges and trouble shooting of these challenges in real time.

## INDUSTRIAL VISIT TO AKZO NOBEL INDUSTRIES



The department of mechanical engineering had arranged for the industrial visit to Akzo Nobel industries on the 12th of September 2019 for the 3rd semester students



# MEDHA

## ARTICLES

### AMAZON ON FIRE

Why Is Amazon On Fire? On 24 August 2019, the world woke up to heart breaking news. Amazon Forest, located in the states of Brazil and world's largest oxygen hub was on fire. The maximum percentage of oxygen is obtained from Amazon. An unprecedented number of fires raged throughout Brazil in 2019, intensifying in August. That month, the country's National Institute for Space Research reported that there were more than 80,000 fires, the most that it had ever recorded. "There is no doubt that this rise in fire activity is associated with a sharp rise in deforestation. These are intentional fires to clear the forest." Catherine Stoof, coordinator of the Fire Centre at Wageningen University in the Netherlands, tells The Verge. "People want to get rid of the forest to make agricultural land, for people to eat meat."

Why should we worry about it? Everyone on the planet benefits from the health of the Amazon. As the trees takes in carbon dioxide and releases oxygen, Amazon rainforest in this case plays a huge role in pulling planet-warming greenhouse gases out of the atmosphere. Without it, climate changes speeds up. But as the world's largest rainforest is eaten away by logging, mining and agribusiness, it may not be able to provide the same buffer.

What is the youths take on this? Amazon being the largest rainforest of the earth and also known as the lungs of the earth need to be saved. And we as youth need to understand we are a part of the world and the centre of it. The earth can survive extreme conditions of the weather change but the species cant and humans are one of the species. And that is why we should be concerned about the weather changes and in saving Amazon. "IF AMAZON DIES WE DIE".

Apurba Deb

### FORGIVE AND FORGET

Mahatma Gandhi, the Father of our Nation said, "The weak can never forgive. Forgiveness is the attribute of the strong." Many people view forgiveness as an off shoot of love; a gift given freely to those who have hurt you. Forgiveness does not involve a literal forgetting. Forgiveness involves forgetting graciously the harm done. The forgiver remembers the painful incidence, but without the embellishment of angry adjectives and adverbs that stir up contempt. Forgiveness does not mean you are weak; it means you are strong enough and smart enough to let go and move on. As Gandhi said "An eye for an eye will make the whole world blind". The world remembers people who were and who are kind, patient, generous, and noble to others. As the saying goes "the cultured give and forgive, the uncultured get and forget". The quality of forgiveness is either inherent or has to be cultivated over the years. There is nothing anything noble about being superior to another person. True nobility is in being superior to the person you once were. Forgiveness however may bring enormous benefit to the person who gives that gift. According to recent research, if you can inculcate the habit to forgive and forget, you are likely to enjoy lower blood pressure, a stronger immune system and a greater drop in the stress hormone circulating in your blood. Studies suggest back aches, stomach problems and headaches may disappear, if you will reduce anger, bitterness, resentment depression and other negative emotions that accompany failure to forgive. Bottom line is "you can start the next chapter of your life if you keep re-reading your last one." As Alexander Pope says "To err is human, to forgive is Devine".

K. Rohit

# POEMS

## FRIENDS

A vast world, I see on EARTH,  
Men & Women I see on dearth,  
But only a few among them to hold my hand,  
They are my friends  
Cricket, football, bunking, movies, trips, well  
that's what we do  
Oh yeah forgot to add in PUBG also :)  
A good drink and an overnight stay,  
Craziness being a common trait,  
Studies we wish could be kept on wait,  
Such are my friends  
College being a daily routine  
As we study together from morn to noon,

Hoping together the period to end soon  
Exams, seminar, assignments, attendance is all  
we worry about,  
Long phone calls, being a part of our life,  
And the memories to cherish so  
As time passes we become working men,  
Each in a different place,  
But our bonds continue to remain strong,  
With memories flashing with a background  
song...  
YES, THESE ARE MY FRIENDS, WHO  
MADE ME WHAT I AM.

Anirudh Chaliloth

## THE PROFESSOR

An unsung hero,  
Through the years gone by,  
Carries such a weight upon his shoulders,  
Another wouldn't try.  
The weight upon him,  
Isn't one of rock or stone,  
It's the future of the world,  
Yet he holds it alone.  
By callous youth he mocked  
Left, right and center  
But he cares not  
For he is the MENTOR.  
His duty he shall uphold  
Their knowledge he shall nurture

For what lies in his hands  
Is not past or present, but the Future.  
He needn't for rewards  
Not even their gratitude  
But perhaps a bit of seriousness  
Just a mere change in attitude  
For what he really wants  
Regards the fields of the unknown  
All he asks for, upon them  
Should seeds of knowledge be sown  
This is an ode to teachers,  
For their values you have instilled in us...  
WE WILL FOREVER STRIVE TO UPHOLD

Anirudh Chaliloth

# PHOTOGRAPHY

Rishab, 7<sup>th</sup>



Visweshver, 7<sup>th</sup>

# DEPARTMENT OF CIVIL ENGINEERING



FROM LEFT TO RIGHT →

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
<b>Row 1</b>					
1.	Prof.Chinchu Lakshmi Das	Assistant Professor	9.	Prof.Muni Krishna	Assistant Professor
2.	Prof.Geena George	Assistant Professor	10.	Prof.Santosh R	Assistant Professor
3.	Prof.Sreedhar	Assistant Professor	11.	Prof.Venkatesha.N	Assistant Professor
4.	Prof.V Harish	Assistant Professor	12.	Prof.Ravi Chandra.S	Assistant Professor
5.	Prof Ashok Biradar	HOD	13.	Mr.Gangadhar	Lab Instructor
6.	Prof.Barnali Ghosh	Assistant Professor	14.	Prof.Nikesh Jain	Assistant Professor
7.	Prof.Preethi Annie Blessy	Assistant Professor	15.	Mr.Muniswamy	Lab Instructor
8.	Prof.Shobha NV	Assistant Professor			



# UTKRANTHI

## ARTICLES

### VIRTUAL REALITY AND AUGMENTED REALITY IN CIVIL ENGINEERING

Virtual reality and augmented reality are the new trends in civil engineering to watch out for in 2019. Although the technology itself isn't new, its applicability in civil and construction industry is gaining immense popularity. VR and AR are forms of immersive media to visualize the end results and are increasingly being used by both users and the civil engineering project teams alike. Virtual reality is empowering the civil engineering industry with a user experience that was once possible only in science fiction stakeholders and designers can benefit from the interactive and immersive experience in an isolated ambience created using sophisticated VR headsets, cardboard viewers. After all who wouldn't appreciate the virtual experiences of stepping into planned construction even before implementation. Augmented reality on the other hand interweaves real world and graphics to give field personnel and civil engineers useful information such as health and safety warnings, productivity statistics, design specification, making their job on field easy. VR tech could be applied as a compliment to 3-dimensional modelling, leading to communication of the structure, techniques of 3D modelling and VR can be applied to the development of models related to construction process. The 3D models created to support rehabilitation design emerge as an important fact for monitoring of anomalies in structures and to assist decisions based on virtual and visual analysis of alternative solutions. These applications allow the simulation of physical progression of each type of work and also assist in the necessary equipment needed and how it functions on site, lighting layouts and furnishing. This also helps to increase the speed of revenue for commercial projects. By improving scalability, stream lining collaboration and upgrading the customer experience VR help construction companies tackle old and new problems to create a more profitable and satisfying construction experience.

Herman Fredrick Ernest, 7<sup>th</sup> B

### CONCRETE WORLD

The world of concrete is an annual trade show for the commercial construction industry. It is held each year in the month of January or February this event is a show where product, resources and information related to concrete construction are showed and displayed. More than 1800 companies and suppliers from all over the world come together to demonstrate on their topic. The demonstrations are actual work conditions where attendees can see the product that they are interested to put to the test. Habitual attendees include commercial contractors, concrete contractors, ready mix producers and concrete pumbers. The 4<sup>th</sup> edition of world of concrete India was open from august 10-12-2017 in New Delhi to welcome suppliers from the commercial concrete and construction industries. The Indian edition is jointly organized by Informa exhibition U.S. The enthusiastic response from the previous three editions, which drew participation from 100 leading industry suppliers and more than 3500 professional visitors from India and overseas, has set the pace for the next edition. World of concrete provides perfect platform to display your products and solutions to the Commercial Construction Concrete Industry. The government of India has plans to infuse a massive investment of approximately U.S \$1024billion during the current 12<sup>th</sup> 5-year plan. As India is modernizing its infrastructure at a fast pace, and concrete is an essential requirement of infrastructural development, it is imperative to have such an event which provides a level playing field for the companies in commercial concrete business to showcase innovative technologies and products to modernize the Indian concrete industry and to exhibit your products and technologies for concrete construction.

Ashwini.D ,7<sup>th</sup> A

## **WATER CRISIS**

As addressing to the known factors firstly 71% of the earth surface is covered by water, its roughly measured to 332.5 million cubic meters, that means “336 billion” gallons and when it is proportionated with population of humans then its “48 billion” gallon per a person. Even having such a humongous resource 1 out of 3 of the human population doesn't have access to drinking safe water. Why can't we desalinate ocean water? The problem is that the desalination of water requires a lot of energy. Salt dissolves very easily in water, forming strong chemical bond and those bonds are difficult to break. Desalination is fundamentally tricky process!!! And the solution is 1. By thermal 2.Reverse osmosis. But both these cannot be used as a long-term solution because this results in the formation of “Brine” which is highly concentrated salt water which affect the aquatic lives in a large magnitude. The economic or sustainable solution to recycle the produced waste water is ‘5 times the volume’ of the “Niagara Falls” every year. Whereas, the desalinated water globally is just half the volume of Niagara Falls. According to the sources by 2050 more than half of the population will be residing in water stressed area. So, it's time to “pause” and fulfill our obligation towards the nature to minimize this effect.

Monisha.C, 7<sup>th</sup> B

## **FAST TRACK CONSTRUCTION**

In the developing world, the technology is pacing at a faster rate around all the aspects. With the growing technology the time constraints for the given activities has reduced, to which a new technology rose called the Fast Track Construction in Civil Engineering. This article deals with the Fast Track Construction, which is the need of the hour in the current world, in construction

### **What is Fast Track Construction?**

Fast Track Construction is a scheduling technique that can be used to reduce the overall duration of projects by overlapping the design and construction phases. The following steps are involved in Traditional method: concept, schematic design, design development, construction documents, and construction administration. Fast-track construction overlaps these stages to allow construction to begin earlier and proceed at a faster pace. To accomplish this, there must be proven decision-making processes, well laid out communication plans and an overall commitment in place. Briefly stated, fast tracking compresses the project schedule by progressive design and construction phases simultaneously. In a typical fast-track project, site preparation works as well as the procurement of major long-term delivery components are taken up in parallel. The learning objectives & challenges upon the fast track construction program are:

- Duration of design and construction are relatively fixed for a given size and complexity.
  - Being aware of special contract provision relating to the risk of fast track construction.
  - To reduce project time to save financing cost.
  - To reduce project time to allow the owner to use the project to improve income and reduce costs.
  - Identify statutory and regulation requirements and permitting for projects with multiple work packages.
  - Overlapping designs and construction periods.
- The methodology adopted for fast track is pre-qualification of contractor and supplier, adoption of advanced mechanisation in work, use of the latest software for planning and scheduling and cost management, use of latest techniques in construction and most importantly inculcating swift working culture. And, an integrated approach for execution and supervision of work. The technologies which are made use in the fast track is the adoption of fly ash concrete and self-compacting concrete, use of pre-fabricated reinforcement mesh and structures, adoption of modular construction techniques and many more. The benefit of fast track construction is the most effective way to shorten the duration of a project in spite of the risk involved. A project is put in fast track by scheduling tasks that were originally scheduled to run one after the other to run instead at the same time concurrently.

Dharesh Hebballi, 5<sup>th</sup>

## ACTIVITIES

### SURVEY CAMP

A survey camp was held in Kairala, Chikballapur district from 18<sup>th</sup> February 2019. The students were divided into eight groups, the survey camp was held for 6 days and every day was a platform for the students to learn something new. The teachers who had accompanied the students were Mr Santhosh, Mrs Ranjitha and Mrs Prapula. The students learned the practical applications of the survey. It is one such experience for the students, which will never be mitigated from the mind and heart of every student.



### CIVIL CUP- CRICKET TOURNAMENT



The civil cup- cricket tournament was held from 25<sup>th</sup> to 29<sup>th</sup> of March 2019, it was a knockout tournament and there were two teams from the civil, computer science, mechanical and electrical branches respectively. There were one team each from the teaching faculty and the non-teaching faculty. A total of ten teams actively participated. The tournament was being organized by the "Civil Department". The final clash was between the civil department and the mechanical department, where civil department won the trophy back home once again. Another crown to the achievements of civil department.

### ENGINEER'S DAY

Engineer's day is celebrated on September 15<sup>th</sup> of every year in India to pay tribute to the great engineer Bharath Rathna Sir M Visvesvaraya. As our department being one of the oldest branches of engineering we celebrated engineer's day on 17<sup>th</sup> of September and the day started by a brief introduction about sir M Visvesvaraya. Dr Palani Raj PhD (IISC), M.Sc. (struct. Engg.) was the chief guest for the day and graced the occasion by giving us a presentation on career planning, training and educational requirements, scope for promotion, water technology and the present scenario of civil industry. This enlightened our students. Further the day was carried by organizing activities which was conducted by the department, which was fun and knowledgeable. The presence of all the students made the event a huge success.

# TECHNO BUZZ

## CAN YOU ANSWER?

1. An engine which has ring.
2. Cement which has a land.
3. A force which has an ear.
4. A structure which has a lab.
5. It is a first step in construction where sign is required.
6. A beam which has a gate
7. It is basic material in construction where oil is present.
8. That part of survey which is flying always.
9. It is a road construction material where men are present.
10. A law which has fans.

### Answers:

1. Engineering
2. Portland cement
3. Shear force
4. Slab
5. Design
6. Conjugate beam
7. Soil
8. Fly levelling
9. Bitumen
10. Stefan's law

Aftab.C, 7<sup>th</sup> B

## CROSS WORD PUZZLE

- |               |                  |                  |                |             |
|---------------|------------------|------------------|----------------|-------------|
| 1. CONCRETE   | 9. GEOLOGY       | 17. HYDRAULICS   | 25. AGGREGATES | 33. FOOTING |
| 2. STEEL      | 10. ROCK         | 18. HIGHWAY      | 26. BITUMEN    | 34. BARS    |
| 3. DESIGN     | 11. FLUID        | 19. CARRIAGE WAY | 27. GRAVITY    | 35. WALL    |
| 4. GRADE      | 12. RESOURCES    | 20. KERB         | 28. BEAMS      | 36. LOADS   |
| 5. SUB GRADE  | 13. MATERIALS    | 21. MORTAR       | 29. COLUMNS    | 37. TENSION |
| 6. SUB BASE   | 14. BUILDING     | 22. SAND         | 30. SLAB       | 38. WATER   |
| 7. STRUCTURES | 15. CONSTRUCTION | 23. CEMENT       | 31. REINFORCED |             |
| 8. FOUNDATION | 16. SURVEYING    | 24. COMPRESSION  | 32. BRICK      |             |

A	C	Y	B	D	B	W	S	P	E	C	I	F	I	C	M	Y	S	P	T
M	A	T	E	R	I	A	L	S	S	C	I	L	U	A	R	D	Y	H	A
T	R	I	A	X	T	L	R	S	E	T	A	G	E	R	G	G	A	C	B
E	R	V	M	Y	U	L	K	S	P	S	N	M	U	L	O	C	W	D	N
N	I	A	S	Z	M	W	C	Q	O	L	N	L	O	L	T	S	H	Q	P
S	A	R	A	F	E	G	O	D	E	F	I	L	O	K	S	J	I	T	V
I	G	G	C	O	N	C	R	E	T	E	R	E	T	A	W	C	G	A	D
O	E	I	I	M	N	E	T	S	U	B	G	R	A	D	E	Q	H	G	E
N	W	B	C	F	S	S	O	I	L	F	R	G	N	M	O	L	N	S	C
D	A	F	G	O	U	U	A	G	R	A	D	E	E	N	J	I	H	T	R
F	Y	H	U	O	R	B	V	N	C	D	B	N	K	L	D	L	O	W	O
L	K	R	S	T	V	B	W	X	D	M	T	N	F	L	U	I	D	M	F
N	C	T	C	I	E	A	Y	Z	L	N	O	X	I	Y	Z	L	S	R	N
E	I	D	X	N	Y	S	T	R	U	C	T	U	R	E	S	O	P	A	I
Z	R	Y	L	G	I	E	S	N	V	P	B	O	L	K	B	A	T	T	E
O	B	P	Q	O	N	O	I	S	S	E	R	P	M	O	C	D	D	R	R
N	R	V	W	S	G	X	A	N	O	I	T	C	U	R	T	S	N	O	C
F	O	U	N	D	A	T	I	O	N	K	L	N	J	O	T	S	C	M	A

Prajwal URS ,7<sup>th</sup> B

# ARTICLES

## MEDHA

### MATHEMATICAL LETTER

#### FROM:

Algebra,  
Progression villa,  
Education Street,  
Maths nagar

#### TO:

Mrs Trigonometry,  
Calculus villa,  
Logarithm Street,  
Indices nagar

Dear Mrs Trigonometry,

With due calculation, I am asking your opinion about the marriage of my daughter infinity with your son zero. As you all know, my daughter infinity has no limits, how nice they will look as a couple and in fact they are already in love! The relation between them is universally known fact that any digit divided by zero is infinity and any digit by infinity is zero. By addition and multiplication your son remains intact, so please consult your formula and log tables to find a suitable day for the wedding. Please consult all the numbers of your family including your grandfather Mr Complex number.

Thank you for the permutation looking forward to a nice combination.

DATE: 0∞/∞0/cos90°

Yours lovingly,  
Algebra  
Bhavyashree.M, 7th

### FIVE LITTLE CLOUDS

Five little clouds were playing in the sky; they looked white, shiny and beautiful. The little clouds were happy to drift about in the air, high up in the sky just then a light breeze came by. He asked the clouds "hey you little clouds!" "I will take you to see other places! Come with me to grassy meadows and far beyond". The little clouds were only too glad to go along with the breeze, and they let it carry them. They moved fast, and soon drifted above a village where they

could see lots of houses, "that is where the humans live", the breeze told them. By now, the breeze had become stronger and cooler too. The little clouds also felt themselves grow bigger. They looked at themselves and were horrified to see that they also had become dark! "Oh, we want to go back! We have become big, black and ugly! All those humans will laugh at us!" the breeze said.

Chethan.V, 7<sup>th</sup> A

### THE UNSUNG HEROES

Their day begins long before bell rings  
When most students are still asleep,  
And it continues long after kids go home.  
They teach a lot more than just their subject.  
They live and work in front of the toughest  
Audience in the world.  
Some people think they leave for summer, But  
They spend part of it in class learning  
How to be even better for next season.

They inspire hope, ignite the imagination and  
Instill a love of learning,  
Failure isn't a word in their vocabulary.  
They always find a way. . !  
And we call them "Teacher".  
SO Thank you to all the TEACHERS out there  
for your  
Commitment towards us and our Future.

Aquib Ali, 7<sup>th</sup> A

## **SEE HER FROM YOUR HEART**

I see her as a goddess who needs to be worshipped,  
I see her as a baby who needs my love,  
I see her as a teacher who doesn't need a qualification,  
I see her as a friend who needs my company,

I see her as my sister who drives me crazy,  
I see her as an inspiration who inspires me all the time.  
And she is my mom who feels I am her world...  
Sathya.P, 7<sup>th</sup> B

## **SHE IS TOUGH**

"How does their conscience allow them?  
HOW, HOW? Is my question"  
The one who gave birth,  
Wasn't she a mother.....?  
I mean wasn't she a female.  
If she weren't there, how would you,  
How would you even get a child?  
Why is that only men must work?  
Why can't women go out of the house?  
She needs to be set free, she needs care,  
protection, freedom.

Not just hatred and hatred!  
Why is that a mother?  
Who gave birth to a boy respected,  
And the same mother,  
When gives birth to a girl Is disrespected?  
Let's not do this  
Let's not differentiate.  
All are people of god  
All are one  
Love women!!! Respect women!!!

Sufiya, M Tech

## **INTERROGATION IS NOT THE SOLUTION**

"Interrogation is not a solution"  
I have a question.  
For which I have no solution.  
Parents say life is correction.  
Teachers say life is an explanation.  
Students say life is an examination.  
Doctors say life is an operation.  
Engineers say life is a construction.  
God says life is a creation.

Terrorists say life is destruction.  
India says life is population.  
World says life is a competition.  
Poor man says life is starvation.  
Minister says life is an election.  
Politician says life is corruption.  
I still have confusion about this question when  
will I get a proper solution?

Asha.R, 5<sup>th</sup>

## **MY HERO**

You are the reason, that I exist;  
You are the faith, that I believe,  
You are the light, in the twilight mist;  
In every pain you bring relief.  
You taught me, how to stand;  
You taught me, how to speak,  
You pushed me every step forward;

You were and always will be my support system.  
You are the reason, for what I am;  
You are the courage, that flows within,  
You are the morning, after the darkest night;  
DAD! You are "MY HERO "

Afshan tabassum ,M tech

## **SHE BELIEVED SHE COULD AND SHE DID IT**

Every Home, Every Heart, Every Feeling, every moment of happiness is incomplete without you, only you can complete this world. This World is a better place, Because of the presence of Women. Mother, sister, daughter, friend, lover or Wife.... no matter what their role is... they add meaning to our existence... They bring love to our life...

You can do almost anything you out your mind to...

You can swim the deepest Ocean and climb the highest peak...

You can face adversity and still walk tall...

You are strong, beautiful, and compassionate and much more than words could ever say!

Being a woman is not easy... Being a woman is mighty hard...

You bring balance... You bring love and race... You bring sanity to this world...

Here's to Women!

Here's to women... Who knows where she is going, and will keep on until she gets there, who knows not only what she wants from life, but she has to offer in return.

Who is loyal to family and friends, who expects no more from others, than she is willing to give?

Who gives the gifts of her thoughtfulness, who shows her caring with a word of support, her understanding with a smile, A Woman who brings joy to others, just by being herself?

**WOMAN IS A SYMBOL OF POWER; GOD'S FINEST AND BEAUTIFUL CREATION; WITHOUT WHOM NO CREATION IS POSSIBLE.**

Shubha M R, 7<sup>th</sup> B

## **GLASS CEILING: MYTH OR REALITY??**

Glass ceiling means an invisible upper limit in corporations and other organizations, above which it is difficult for women to rise in their ranks. Glass ceiling is a metaphor to describe the informal barriers that keep women from getting promotions, pay raises and further opportunities. It is 'glass' because it's not usually a visible barrier ,and a women may not be aware of its existence until she "hits" the barrier. In other words it's not an explicit practice of discriminating against women .Though specific policies, practices and attitudes may exist that produces this barrier without intention to discriminate. In the business world it is widely acknowledged by women that they are facing the concept called glass ceiling in their careers. And gender equality may have improved somewhat since the days of feminism, but when it comes corporate world many women feel that they are discriminated when trying to make it into the top positions within a company. Society probably believes that the Glass ceiling is a Myth. Many men believe this. Until women see the discrimination for themselves, it's possible that they don't believe it.

Chethan.V 7<sup>th</sup> A

## **A FLAWED SYSTEM**

19 years of sleepless nights, tensions, frustrations, sadness, hard work, sweat and tears studying, all for what? For some paper sheets and appreciation from the society and this is our education system. My father once said "Son, finish your education and you can earn a lot of money. You can do whatever you want with your life." And here I am after 19 years at the brink of my educational life with enough money to do what I want but I'm clueless, left in the darkness, clueless of what I am and what I want to do. I'm left with only one path; the path my father has paved for me. In these 19 years of studying, struggling and pleasing others I have lost myself in all the chaos of the world and its societies. I'm left in the dry with no talent, no excitement about my future without any hope, left to walk the same path as my father and his forefathers have walked. To go through the hardships of work and material life that he has been through. "A farmer's son can only be a farmer?" "A blacksmith's son can only be a blacksmith?" Why is that? Because his father has only taught him what he is familiar with. It is left to us to stroll into the darkness with that fading piece of glowing ember and to create that fire in our hearts to pursue that dream that we had 14 to 15 years ago. Many people might try to end their dreams but we should always remember that people's dreams never end. This educational system is like a computer where we, the children are left to do all its programming. This educational system prepares us in such a way that we'll just be slaves to its nonsensical cycle of life. For the first 10 to 15 years a child should learn the basic structure of life, the environment, moral values to build a strong foundation. After all, how can we rest our future on a crumbling foundation? The main difference between us, the human beings and animals is our freedom to think beyond the box.

Deepak, 7<sup>th</sup> A

## **YOUTH IN POLITICS**

From my understanding and learning age, the first thought that often hit me about politicians was that they were evil men who kill people for their posts. I guess I got this thought from the role of politicians in most of the movies I have watched. To us, the younger generation, politicians have always been mentors of all sorts of terrorist activities against national interest. Most of today's politicians have a criminal background; they create problems to local population, instead of solving them. Young politicians today have their own pros and cons. The pros include that they are younger, charismatic, energetic and enthusiastic. They are educated, well-travelled and more broad-minded yet necessarily grounded in tradition for rural vote bank. Most of today's politicians are descendants of well-established political families. They know the system, yet seem to bring a breath of freshness in a heavy political scene. The answer to today's problem and world's hope is to rely on youth. Present politics demands the qualities of youth, not a time of life but a state of mind, a temper of the will and a quality of imagination. Youth have the power to create a revolution in politics

Sushmitha.G, 7<sup>th</sup> B

## **PLANNING-MAJOR ASPECT OF LIFE**

"Man plans, God does". It is ironic that it is a favourite saying. Since I have always been a planner, when I was a child, people would ask me what I wanted to be. I always had an answer. That answer changed significantly as time went on but one thing never did- I always had a plan. Planning for our future is very important even if those plans change. One way in which we plan for the future is by setting goals. Part of the career planning process involves setting goals, these may be both long or short term. These goals will be used to develop a career action plan that describes steps you will take to reach your goal. In this case, the goal is usually a particular career objective. It can be a particular occupation or an earning level. Don't be negative. Make sure your goal is something that you will not avoid. Keep your goals realistic. Make sure you have the ability and necessary skills to reach your goal. If you have one big goal then you have to break it down into smaller parts or short term goals. There must be an action tied to each goal.

There's one more thing to remember when setting your goals—"BE FLEXIBLE"

Sushmitha.G, 7<sup>th</sup> B

## **SOCIAL NETWORK- AN EVIL**



When network becomes water, and newsfeed becomes breakfast!!  
When followers are your friends, and unfollowing breaks your heart!!  
When likes are your life's approval and comments are acceptances!!  
When replies means priority and updating status of a well spent life!!  
When stories are your adventures, and tons of requests means fame!!  
When tweeting is a way of rebelling, and boomerang videos are your routine!! Then... it's time to detox your life of social media... unplug yourself from social media and connect to the social problem.

Akash.K, 5<sup>th</sup>

## **A JOURNEY OF BLISS**



"WONDERLUST" - The magical word which has enchanted the souls, seeking relief from a monotonous life, blessing them with ethereal experience from all corners of our wonderful world, creating delightful memories, elevating oneself to their happiest existence and rejuvenating our life as a whole. KERALA – The God's own country never ceases to wonder the traveller. Its sheer diversity from the picturesque mountains to quite beaches, Kerala offers everyone their deepest desire. One such place which is one of my favourites is the "TOP STATION" peak point in Munnar. The quite hills, the rich flora, the clearest sky and of course the mist complete the mysterious appeal of this magical place, listen to the silence of nature, Get drenched in the vastness of the mountains and be lost in the eternal query of exploring oneself, when you are belittled by the solemn nature of the place

Kavan Kishore,7<sup>th</sup> B

## MY EXPERIENCE IN INDIA!!!

Hello everyone!!! My name is KALALA MUBENGA MIKE; I am an African from REPUBLIC DEMOCRATIC OF CONGO. I have been in INDIA since February 2k16 for the pursing my bachelor's degree. When I landed in India, I was supposed to take up English literature classes for four continuous months before starting my college as I come from a French country. Currently, I am pursuing my final year in Civil Engineering at EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY. And, I am on a verge to complete it. At the beginning, it was not easy for me to understand few subjects because of the language barrier. But I never gave up!!! One of my hobbies is to socialize with the people around me. Trust Indians are too good at it. My boon companions are SAQUIB KHAN and ELISHA. They are the one who have supported me to grow as an individual and especially helped to overcome the language barrier. As we know, India is one of the biggest developing countries!!! This is the reason I am here and it's really been exciting. And, I am so delighted to tell that my dream of becoming a Civil Engineer is coming true from this country!!! Whenever, I talk about India its only about their magnificent heritage and the advanced technology!!! Eventually, when I'll be building my resume it will be my honour to tag India in it because, this place has given me the best out of everything.

The experience of being in India can be stated only in two words THE BEST!!!

At the end, my message, to all of you is whatever your plans, goals and aspirations are give it all to achieve the greater heights!!! Thank you!!!

Kalala Mubenga Mike, 7<sup>th</sup> A

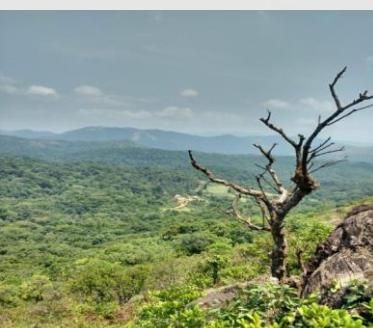
## LALITHKALA



Herman Fredrick Earnest, 7<sup>th</sup> Sem

## PHOTOGRAPHY

### THROUGH THE LENS



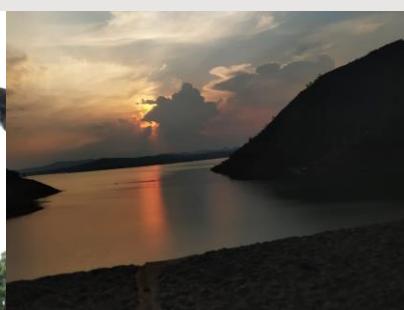
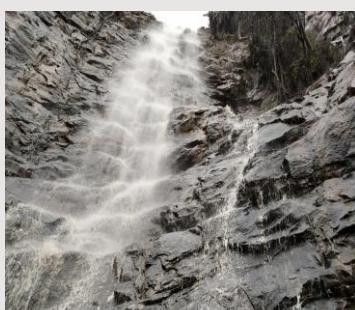
Nithin, 7<sup>th</sup> B



Rakshith, 7<sup>th</sup> A

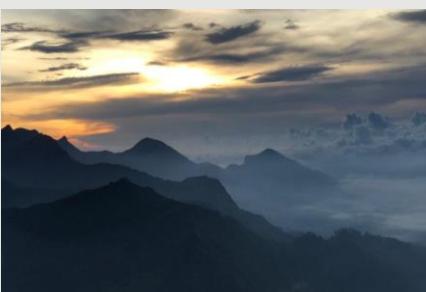


Dharesh hebballi, 5<sup>th</sup>



Sharath.S, 7<sup>th</sup> B

## ZAKYATA



Prof. Chinchu Lakshmi Das, Assistant Professor



Prof. Nikesh Jain, Assistant Professor

# DEPARTMENT OF BASIC SCIENCES



FROM LEFT TO RIGHT  
→

Sl. No.	Staff Names	Designation	Sl. No.	Staff Names	Designation
1.	Prof Sumitha KS	Assistant Professor	9.	Prof. Gowthami R	Assistant Professor
2.	Mrs. N Riju	Office Assistant	10.	Prof.Jayanthi Msihra	Assistant Professor
3.	Prof.Chaitra.N	Assistant Professor			<b>Row 2</b>
4.	Prof.Doreswamy HS	HOD	11	Mr.Narasimha M	Instructor
5.	Prof.Ashok Shukla	HOD	12.	Prof.Srinivas YC	Assistant Professor
6.	Prof.G Maruthi	HOD	13.	Prof.Rangaraju BV	Assistant Professor
7.	Prof.Sahana C	Assistant Professor	14.	Prof.Ravindra P	Assistant Professor
8.	Prof.Gayathri V	Assistant Professor	15.	Mr.Venkate Gowda R	Instructor



# UTKRANTHI

## REFLECTION PAPER

### AN ELOQUENT TALK ON PERSISTENT ORGANIC POLLUTANTS

**Event Title:** Persistent Organic Pollutants (POPS) and its effect on the environment

**Event Date:** 17 October 2019, **Speaker:** Dr. C. Jayaram Naidu, National consultant from UNIDO

Persistent organic pollutants (POP's) are organic compounds that are resistant to environmental degradation through chemical, biological and photolytic processes. Because of their persistence, POP's bio accumulate with potential adverse impact on human health and the environment. The effect of pops on human and environmental health was discussed, with intention to eliminate or severely restrict their production by the international community at Stockholm convention on persistent organic pollutants in 2001. Many of the POP's are currently or were in the past used as pesticides, solvents, pharmaceuticals and industrial chemicals. Although some of the POP's arise naturally, for example volcanoes and varies bio synthetic pathways, most are manmade via total synthesis. POP's are found everywhere in the world in measurable amounts some are Food –fish, shellfish or wild foods in which POP's have bio accumulated. Air –indoors and outdoors, cigarette and secondhand smoke and vehicle exhaust. Consumer products–pesticides, insecticides, cigarette and some paints. Persistent organic pollutants (POP's) commonly enters the body through: Ingestion (swallowing) –swallowing food or water contaminated with POP's, Inhalation (breathing) –breathing indoor or outdoor air contaminated with POP's, vehicle exhaust cigarette and second hand smoke, Skin contact –touching products made with POP's. POP's are highly toxic chemicals and are very dangerous part of our environment. If something is not done to decrease the amount of these pollutants soon, our wildlife and the habitat it will suffer in the long run. It is understandable that it may be impossible to rid the environment of these pollutants but by realizing what is the risk of using them in our everyday life, perhaps other will be more welcome to the ban that came about in the convention, a global treaty banning POP's. Because of POP's are able to travel long distance and stay in the environment for a decades at a time, banning them only in some countries is not good enough. POP's are not used or manufactured in Alaska, yet they have been causing problems in its environment, because countries like Russia still use them and POP's come through the rivers and in to the ocean flowing towards Alaska. Pops are made up of twelve pollutants that are common in our everyday life. The most common form of them are the pesticides and the insecticides and along with PCB's and manmade materials such as electrical, heating transfer and hydraulic equipment. In order to decrease the risk of POP's, we need to rapidly phase out these pollutants or else the environment is going to be concentrated with levels of POP's that can ultimately cause death of humans and other animal species.

Pragati M, 1<sup>st</sup> Semester, ISE

### MY PERSPECTIVE OF PERSISTENT ORGANIC POLLUTANTS (POP's)

**Event Title:** Persistent Organic Pollutants (POPS) and its effect on the environment

**Event Date:** 17 October 2019, **Speaker:** Dr. C. Jayaram Naidu, National consultant from UNIDO

A forum lecture was conducted to bring awareness about these pollutants and how it is widely distributed in the environment. Through this motivational speech we came to know what POP's are and how dangerous it is for the environment which is even more fatal than plastic. POP's are organic chemical compounds that come from a natural or anthropogenic origin with harmful characteristics these are widely distributed in the environment. The movement of POP's in environment stick strongly to the soil particles and usually not carried deep in to the soil POP's do not readily break down and may remain in the soil for month or years. These enter air by both soil and water by the trans-boundary movement it was identified as POP's are semi volatile chemicals and can affect the regions. These POP's chemical show chronic toxicity properties including developmental and carcinogenic etc. The current regulatory status of these pops for example are DDT-pesticides-restricted, HCB-industrial non-registered, dioxins-bi-products-unintentional. The exposure pathways of POP's are use/applications, stockpiles, trans-boundary transport, the emission from spillage and the most common human exposure pathways is via food. The biological effects of POP's are bio-magnifications, reproduction, immune system, liver enzyme intoxication and porphyria -symptoms-skin and nervous system damage. They effect human beings by causing serious diseases like cancer and tumors

in different parts and in wildlife compromised immune system, cross birth effect, tumors and cancers . The one among the twelve original pops is PCB known as poly-chlorinated biphenyls these PCB have been accidentally released into the atmosphere. They possess properties including longevity, heat absorbance and form an oily liquid at room temperature that is useful for electrical utilities and in other industrial applications. To reduce diseases and other health related risk for future generation some measures can be implemented proactively. The measure is to reduce the level of POP's through advocacy, administrative measures through guidelines. POP's exposure can be prevented by avoiding eating large fish, fatty meats that have high level of POP's. To reduce the level of internal exposure to POP's by eating fibrous food, spinach. Stopping the use of DDT, controlling dioxins etc. By implementing these measures we can control the spreading of POP's and free the environment from disease and health hazards. Serious proactive measures should be taken to make the future generation free from health hazards. Impartment on these serious poisonous pollutants to everyone and on how to prevent and reduce it using fibrous and organic food products.

Ranjitha.S, 1st Semester, ISE

## ACTIVITIES

### A LECTURE ON EARLY HISTORY OF QUANTUM MECHANICS



**"I think I can safely say that nobody really understands quantum mechanics"**

**Richard Feynman**

The students of first year engineering were given a lecture on quantum mechanics on 24<sup>th</sup> May 2019 at East Point College of Engineering and Technology. Prof. S P Basavaraju an eminent and famous physics author addressed the first year engineering students.

### SCIENCE FORUM LECTURE ON “PERSISTENT ORGANIC POLLUTANTS AND ITS EFFECTS ON ENVIRONMENT”



Department of Basic Science had organized the First Year Science Forum Lecture on 17<sup>th</sup> October, 2019. The chief guest and the speaker for the lecture was Dr. C. Jayaram Naidu, National consultant from United Nation Industrial Development and Organization (UNIDO), Austria.

The Guest Speaker in his lecture stressed about Persistent Organic Pollutants (POPs) and its current regulatory status. He introduced the students to the sources, bioaccumulation of POPs, its toxicity, exposure pathways and its biological effects, elimination procedure carried out and how Polychlorinated biphenyls (PCBs) are poisonous and damage to the environment. He briefed us about the international project on elimination of POPs including PCBs used in electrical equipments.

## ARTICLES

# MEDHA

### NARUTO THE NINJA WARRIOR



Naruto is a Japanese manga series written and illustrated by Masashi Kishimoto. It tells the story of Naruto Uzumaki, a young ninja who seeks to gain recognition from his peers and also dreams of becoming the Hokage (the leader of the village). Naruto by meaning is the fish cake roll in cup noodles which is the favorite food of him. The manga was adapted into an anime broadcast 220 episodes in japan from 2002 to 2009. The characters run leaning forward with arms behind their

The movie is famous, there are many movies of Naruto and Japanese language is used, the 1<sup>st</sup> movie of Naruto was released in japan on 21<sup>st</sup> March 2004. He is the famous ninja, Naruto is also called as fish cake roll the city of Yaizu, Shizuoka is known for production of Naruto, after joining team Kakashi, Naruto worked hard to gain the village's acknowledgement all the while chasing his dream to become Hokage in the following year.

Ashwaq Ulla Baig, 1<sup>st</sup> Semester, ISE

### SUCCESS

#### **“The best revenge story”**

People say that if you want to be something in life you have to work hard. I say be yourself and work smart. Embrace the talent in you and that will lead you to success, Success is a journey not a destination. The vision of society varies towards success, each step towards success leads to many failures inspite of that never give up. As we all know failure is the first step towards success. Success is about what it means to be someone who never gives up, dedication towards cherishing the talent to reach the goal and achieve the dream. ‘The Road not taken’ a poem written by Robert frost. Where two roads diverge in the world as a traveler he couldn’t travel both the ways but he chose the road travelled by less and that had made all the difference. Similarly success will never come to you when you follow others like sheep. Be you enlighten the knowledge in you do the things which are not done by others. The famous quote by swami Vivekananda “Take risks in your life, if you win, you can lead! If you lose you can Guide!” It is better to do something you doing nothing. The effort of doing something will one day arise as a success at your feet. Quitter never wins and a winner never quits you choose whom you want to be in your life. Each one of you have the potential to achieve anything and everything all that matters is your effort and will power to achieve it. The key to success is to focus on goals but not obstacles. There are no limits to what you can accomplish. Except the limits you place on your own thinking. If people hate you then show them your success they will burn in your success and that is the best revenge ever.

Bhavana D R, 1<sup>st</sup> Semester, ISE

### GRATITUDE

Good habits are hard to develop but easy to live up with and bad habits are easy to develop but hard to live with whether it’s with mobile phones, food, exercise or television. In this stressful and busy life everyone is in search of happiness. I would say it is easy to get happiness by developing one good habit in our life that is, gratitude. Because this can change our mood from the moment we wake up till the moment we sleep. People who are grateful are happier, less stressed and satisfied with their lives and social relationships. Be grateful for each and every moment in your life guys it will bring happiness to you and in the environment you live. By virtue of your gratefulness it can change someone’s day or mood. This one positive response from you can bring positive vibes into you and others also.

Vishwanath M O, 1<sup>st</sup> Semester, ECE

## RIDDLES

1. What holds water yet is full of holes?  
Ans : A sponge.
2. What turns everything round but doesn't move?  
Ans : A mirror.
3. It is not at all planted.But yet it grows and everyone will have it  
Ans: Hair.
4. Press me at the bottom, meet me at the top.  
Who am I?  
Ans: Toothpaste.
5. What has a head that cannot think but hits  
Ans: Hammer.
6. I am born in water but afraid of it because if I am put back again into it I would melt.  
What am I?
7. Ans: Salt
8. What is round as a dishpan, deep as a tub and still the Oceans couldn't fill it up?  
Ans: A sieve.
9. I stay in one corner but I travel to all places.  
Who am I?  
Ans: Stamp.
10. I have seas but no water. I have deserts but no sand. Who Am I?  
Ans: Map.
11. On which side of the cup is handle?  
Ans: Outside.
12. What can we change without touching?  
Ans: Mind

Bharath Kumar, 1<sup>st</sup> Semester, ME

## JOKES

Sardar's Dad came from USA

**Dad:** Where is your mom?

**Sardar:** She died six months back.

**Dad:** Why didn't you inform me?

**Sardar:** To give you a surprise!

Exam offer! Take a bit to the exam hall and show it to your nearest teacher and win a free trip to principal's room and enjoy unlimited holidays.

**Teacher:** What are the people of 'Turkey' called?

**Student:** 'I don't know'.

**Teacher:** They are called 'Turks', now tell me, "What are the people of 'Germany' called?

**Student:** They are called 'Germs'.

**Father:** Son, why did you pour oil into my nose while I was sleeping?

**Son:** Coz, you had yourself told me that I should pour oil into things that make a lot of noise.

**Precto:** Why are you putting lipstick on your forehead?

**Santo:** My manager told me to make up my mind.

**Doctor:** I am sorry to tell you that you have brain tumor

**Santo:** Is it (jumps in joy)

**Doctor:** Did you understand what I said?

**Santo:** It proves that I have a brain.

**Police:** Why did you steal the money and jewelry twice from the same jewelry shop?

**Thief:** Because I saw a board saying "Thank you visit again".

**Teacher:** What is the formula of water?

**Student:** Sir, it is HIJKLMNOP

**Teacher:** What non sense are you saying?

**Student:** Sir, yesterday you said it is H to O

## POEMS

### FATHER

Anger in his eyes,  
But still he is wise;  
Love in his heart,  
Never brugarts;  
Responsibility on his shoulders,

And still he is stronger;  
Care in his behaviour,  
And does everyone a favour;  
Smile on his face,  
Which can never be replaced.

Megana.L, 1<sup>st</sup> Semester,  
ECE

## MOTHER

About "My mother"  
My mother, my mother  
In this world there is no other  
Like a cursor in the computer  
Like a blanket in winter

Like a smile in happiness  
Mother is like a dream  
Mother is like a stream  
In my life there is no other  
Like my mother, my mother.

Sneha M K, 1<sup>st</sup> Semester, ECE

## EVERY PROBLEM HAS A SOLUTION

Every problem has a solution  
Like friendship for enmity  
Like love for hatredness  
Like awaiting for restlessness.  
The same way every problem has a solution  
Like generosity for greed  
Like trees for pollution

Like rain for drought.  
The same way every problem has a solution  
Like courage for cowardice  
Like hope for pessimism  
Like birth for death  
The same way every problem has a solution.

Namya H.S, 1<sup>st</sup> Semester CSE

## THE DAY BEFORE EXAMINATION

I started studying with concentration  
Biology - its classification  
Chemistry - its prevention  
Physics - the gravitation  
Mathematics - the calculation  
With all these division

I studied with lots of tension who  
On the day of my examination  
I was proud of my prevention  
But when I started liking the examination  
I was knocked with notification  
That I prepared for wrong examination

Sevanth B.N, 1<sup>st</sup> Semester, CSE

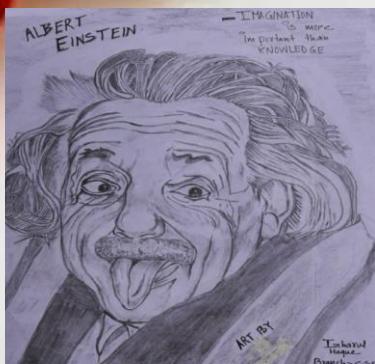
## ಕಾಲೇಜು

ಕಾಲೇಜು ಎಂಬುದು ಒಂದು ಸ್ನೇಹು  
ಎಲ್ಲ ನೋಡಿದರೂ ಬರೀ ಮೋಡು  
ಈ ಮೋಡು ಆಗಬಾರದು ಮುಂದಿನ ಜೀವನಕ್ಕೆ ಗೋಡು  
ಇದು ಒಂದು ರೀತಿಯ ಚೀನೆಜು  
ವಿದ್ಯಾರ್ಥಿ ಜೀವನದ ಉತ್ತಮ ಸ್ನೇಹು

ವಿದ್ಯೆಯನ್ನು ಕಲಿಯಲು ಒಳ್ಳೆಯ ಮೇಜು  
ಇಲ್ಲ ಕಡಿಮೆಯಾಗಬಾರದು ನಮ್ಮ ಇಮೇಜು  
ಹಾಗೇನಾದರೂ ಆದರೆ ಹೊಗುತ್ತೇ ನಮ್ಮ ಪ್ರಸ್ತಿಜು  
ಇಲ್ಲಿ ಚೆನ್ನಾಗಿದ್ದರೆ ಇರುತ್ತೇ ನಮಗೆ ಒಳ್ಳೆಯ ನಾಲ್ಕೆಂದ್ದು  
ಇಲ್ಲಿದ್ದರೆ ಆಗುತ್ತೇ ನಮ್ಮ ತಲೆ ಹಳೆ ಗ್ಯಾರೇಜು

ಸತೀಶ ಕುಮಾರ್, 1<sup>st</sup> Semester, ECE

# LALITHKALA



Izharul Haque, 1<sup>st</sup> Semester CSE



Harshitha.R, 1<sup>st</sup> Semester, ISE



Megana Lokesh, 1<sup>st</sup> Semester, ECE



Pooja.S, 1<sup>st</sup> Semester, CSE



Sucharitha, 1<sup>st</sup> Semester, CSE



Fiza, 1<sup>st</sup> Semester, ISE



Deepthi, 1<sup>st</sup> Semester, CSE

# PHOTOGRAPHY



Alan Thomas Abraham, 1<sup>st</sup> Semester, CSE



Brinda, 1<sup>st</sup> Semester, CSE



Hemanth K  
1<sup>st</sup> Semester, ME



# ZAKYATA

## ಉದಾರ್ಥಾಯ

ಅಕ್ಷರಕ್ಕರವತ್ತಿದ್ದಿಸಿ,  
ಮಗಿಗಳೊಂದದ ಬರೆಸಿ,  
ಮೇಲು-ಕೀಳೆಲ್ಲಾ ಮರೆಸಿ,  
ನ್ನೇಹದ ಗೀತೇಗಳ ನುಡಿಸಿ,  
ಶಿಸ್ತಿನ ಸಿಪಾಹಿಯಾಗಿರಿಸಿ,

ಮುಂದಿನ ನಾಯಕರ ನಿಮಿಸಿ,  
ಸರಳತೆಯ ಜೀವನ ನಡೆಸಿ,  
ರಾತ್ರಿದ ಏಕೈಕ ಶಕ್ತಿಯಿನಿಸಿ,  
ಬಾಳು ಸಾಗಿಸುತ್ತಿರುವ ಯೋಗಿ!!

ದೊರೆಸ್ವಾಮಿ.ಹೆಚ್.ಎಸ್, ಗಣಿತಶಾಸ್ತ್ರ ಉಪನಾಯಸಕರು

## ನಾನು

ನಾನೆಂಬ ಮೂರ್ಖ  
ನಾನು ನನದಲ್ಲ  
ನನದು ಏನಿಲ್ಲ  
ನಾನು ನಾನೆಂಬುವ  
ಹುಡುಕಾಟದಲ್ಲಿ ಅರಿಯುವುದು  
ನಾನೆಂಬುದೊಂದು  
ಇನ್ನೊಂದರಿಂದ,  
ಇನ್ನೊಂದಿಲ್ಲದೇ ನಾನಿಲ್ಲವೆಂದು.

ಹುಟ್ಟು ನನದಲ್ಲ  
ಸಾವು ನನದಲ್ಲ  
ಗಾಳಿಯಿಲ್ಲದೇ ಉಸಿರಿಲ್ಲ<sup>1</sup>  
ಉಸಿರಿಲ್ಲದ ಜೀವವಿಲ್ಲ,  
ಎಲ್ಲಿಯೂ ಏನೂ ನನದಲ್ಲಾ  
ಮತ್ತೇರೆ ನಾನು ನನದು  
ನಾನೆಂಬ ಮೂರ್ಖ.

ಸಹನ ಸಿ.ಭಾತಶಾಸ್ತ್ರ ಉಪನಾಯಸಕರು

## ಪಲಾಯನ

ಕಾಲದ ಮುದ್ದೆ,  
ಒಡುವ ಬುದ್ಧಿಜೀವಿಗಳೇ  
ನಿಲ್ಲಿರಿ ನಿಮ್ಮ ನಾಡಲ್ಲ!  
ನಾಡಿನ ಜ್ಯೋತಿಯ  
ಬೆಳಗುವ ಬದಲು  
ಒಡುವಿರೇಕೇ ನೀವಲ್ಲ!  
ಅಕ್ಷರಕ್ಕರ ಕಲಿಸಿದ  
ಗುರುಗಳ  
ಮರೆಯುವಿರೇಕೇ ನೀವಲ್ಲ?

ಹುಟ್ಟಿದ ಮೂರ್ಖೆ  
ಸಾಯಲೇಬೇಕು  
ಹಣದಾಸೆಗೆ ಬಲಿಯಾಗುವಿರೇಕಲ್ಲ?  
ಪ್ರೇಮ - ಹೀತಿಯ  
ಸ್ನೇಹಜೀವಿಗಳು  
ಇರುವರು ನಮ್ಮ ನಾಡಲ್ಲ!  
ಹಳ್ಳಿಯ ಜನಗಳ  
ನೇಡೆಯ ಮಾಡುತ  
ಕಾಲವ ತಳ್ಳಿರಿ ನಮ್ಮ ನಾಡಲ್ಲ

ದೊರೆಸ್ವಾಮಿ. ಹೆಚ್.ಎಸ್, ಗಣಿತಶಾಸ್ತ್ರ ಉಪನಾಯಸಕರು

# SAMSTHA

## ICON INDIA BUSSINESS AWARDS 2019



The award for “Outstanding Educationalist for contribution in Technical Training of Youth in Karnataka 2019” was conferred upon Dr. Prakash S, Principal, East Point College of Engineering, on 24<sup>th</sup> November 2019 at DEN Hotel, Bangalore.



# SAMSTHA

## ACADEMIC ACTIVITIES

### ONE DAY WORKSHOP ON SECURITY AND CLOUD COMPUTING



One day workshop on Security and Cloud computing conducted at EPCET on 27<sup>th</sup> October 2018. It was intended to bring awareness in the students about the industry expectations, help them to choose better career path by giving a basic overview of trending technology like cloud security. Key speaks was Mr.Lohith.C from Techagape.

### NATIONAL LEVEL 3 DAY FDP



EPCET conducted national level FDP Aiming to provide intense training on Data Science & IoT application for VTU affiliated Engineering college faculties, a Three days National level Faculty Development Programme was conducted between 29<sup>th</sup> Jan 2019 to 31<sup>st</sup> Jan 2019. Mr. Thejesh of Loginware software,Mr. Lohith C of ParloTech Solution,Mr. Raghu of ParloTech Solution,Ms. Aishwarya Raj, a Freelance Technical Education Consultant from Accenture Pvt Ltd,Mr. Adeep Malmotra, a corporate trainer of Excelvisor Technologies.

### TWO DAYS WORKSHOP ON CLOUD VIRTUALIZATION AND FILE ORGANIZATION TECHNIQUES



The two days workshop on Cloud Virtualization and File Organization Techniques organized at East Point College Of Engineering and Technology, inaugurated by our beloved principal Dr.Narendra Viswanath by lighting the lamp.Key speaks were Mr. Raghvan, Corporate Trainer for Accenture, Accenture Pvt. Ltd conveyed following topics and Mr. Lohith C ,Director Corporate Trainer for



### TWO DAYS WORKSHOP ON JAVA FRAMES & PHP



Focusing to provide training on **JAVA FRAMES & PHP**, a Two days student Development Programme was conducted between 21<sup>st</sup> and 22<sup>nd</sup> March 2019. Key speaks were Mr. Avisek Mayur, Mr.Vipin Kumar and Anil Dubey from Wipro Technologies.



## **TWO DAY WORKSHOP ON CRAFTING ON COMPUTER ORGANISATION AND COMPILER DESIGN**



Two day workshop on Crafting on COMPUTER ORGANISATION and COMPILER DESIGN on 23<sup>rd</sup> and 24<sup>th</sup> March 2019 for Second and Third year B E students of VTU affiliated Engineering colleges/Autonomous colleges. There were 404 participants from EPCET and other Engineering colleges. Trainer was K.Kalaiselvi Corporate Trainer Rats Technologies, Bangalore



## **TWO DAYS WORKSHOP “ANDROID APP AND IOT”**



A Two days student Development Programme on “ANDROID APP AND IOT” was conducted between 11<sup>th</sup> April 2019 to 12<sup>th</sup> April 2019. The students from the Department Of CSE, ISE of EPCET were participated in the workshop. speaks were Mr. Kotresh M and Ms. Swati S C from Indian Tech-Keys.



## **NATIONAL LEVEL CONFERENCE ON NEW GENERATION EMERGING TREND PARADIGM (NGEPT)**



A National conference on New Generation Emerging Trend Paradigm (NGEPT) Was conducted on 3<sup>rd</sup> May 2019. Session Chair for the Conference were Dr. Pushpa Mohan, Associate Professor, CMR University-Bengaluru, Karnataka and Dr. Nirmala S Guptha, Associate Professor, REVA University - Bengaluru, Karnataka.



## **“OPEN DAY” EVENT**



Open day was held on 22<sup>nd</sup> June 2019 in East Point Medical College auditorium. Its main aim was to guide students and parents who are seeking admissions in Engineering Colleges to select right branch by industry experts. The event was successful enough to attract as many as 175 registrations from different PU colleges. Mr Rajesh Nambiar, Director UiPath Academic Alliance, Mr Hemanth Puttashamaiah ,Director, SOC Design group in Qualcomm India and Mr Ananth P, Founder Quantech Origin were the key speakers . Dr.Prakash briefed about the Event and he Moderated the Panel Discussion.



## UI-PATH AWARNESS PROGRAM



EPCET conducted UIpath Awareness Program on 6 August 2019 at Medical college seminar hall.Mr.Basavdarshan,Academic Alliance Specialist at UIpath addressed students about UIpath and RPA. He also explained about the certification course program and job opportunities in RPA. Students were highly motivated. HODS of all departments, faculties, 7<sup>th</sup> sem students from all branches participated in the program.



## SALESFORCE GO



Salesforce Go event was conducted on August 7 and 8 2019 for students of final year and pre-final year students .The main aim of this event was to learn Salesforce from scratch. Key Speakers were Kishore B T, Tek Systems, Technical lead & Sirigowri N A UST Global, Bangalore Salesforce Evangelist.



## AWS AWARNESS SESSION



Mr.Vishram Thatte, Technical Program Manager, AWS Academy @ Amazon visited EPCET on 14<sup>th</sup> August 2019. Faculties from various department participated in the event. The chief guest gave an overview of AWS Academic alliance program and certification details and opportunities for students.



## ONE WEEK OF STUDENTS WORKSHOP ON “DECLARATIVE DEVELOPMENT FOR PLATFORM APP BUILDER”



This event was conducted from 19 August to 23<sup>rd</sup> 2019 for students of CSE/ISE to learn Platform App Builder course beyond Salesforce administration to unlock even greater capabilities through declarative programming, Master Salesforce's suite of click-not-code options.Swags were distributed for achievers.



## VMWARE DELEGATES VISIT TO EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY



Ms. Jacqueline Barker, Head of Academic Program VMware IT Academy, VMware, USA and Mr. Sachin Kumar, Regional Program Manager-AP&J, VMware IT Academy visited East Point College of Engineering & Technology on 17th September 2019.The program gave a good overview of authorized VMware courses in a variety of settings.



# SOCIAL AWARENESS PROGRAM

## NATIONAL SERVICE SCHEME (NSS)

The NSS unit of East Point College of Engineering and Technology was first introduced in the year 2019 with a Motto “Not Me but You”. A few programmes under this scheme are:

### ONE STUDENT ONE PLANT



This activity was conducted on 14th August 2019 the main aim of this was to protect our environment by planting a sapling and nurturing it by one student one plant. The program was addressed by the principal, the respective head of departments and other dignitaries of our college. The principal emphasized importance about the current environment surrounding also highlighted the responsibility of the student concerns for the society and advised that the students are the architect of building the future of the country. Around 300 students gathered for the event carrying a sapling with each of them.

### A FLOOD RELIEF

All of us are aware that Karnataka was reeling under floods as nature had caused massive disaster in the form of rain and floods resulting in an enormous loss of human life, animal lives and dislocation of thousands of people. It was our responsibility to help the flood affected families of Karnataka by contributing to the Chief Minister's relief Fund, Government of Karnataka. NSS unit of EPCET Bangalore organised a donation camp in the college campus on 16th August 2019. An amount was rupees 18,500 was collected as fund

### BLOOD DONATION CAMP



The NSS unit of EPCET organized a blood donation camp on 28 August 2019. Donating blood is one of the vital way to help and save life where a single donation can save three lives. The principal EPCET, Head of pathological department, staff and students donated blood in the camp. The medical staff from East Point Medical College helped in collection of blood from donors.



### NSS CO-ORDINATORS



Prof. Nikesh Jain  
Assistant Professor  
Dept. of Civil Engineering

## FASHION SHOW

It is valour of Indian Armed Forces that is keeping our tricolor flying high! This very thought stirs the hearts of the East point students which gives birth for the first time in history to EPCET fashion team. East point group of Institution Fashion Team proudly represented our college at Sir M. Visvesvaraya Institute of Technology KALANJALI-2019. The theme for the fashion show was colors of Indian armed forces. We are dedicated to preserve national interests, safeguard sovereignty, territorial integrity and unity of our Nation. There's no doubt about the fact that we hold immense respect for our military and its soldiers in our hearts. We salute the men and women who continuously fight for us and our country. We salute the ones who died, the ones that give their lives so we don't have to sacrifice all the things we love. Words are never enough but heart screams Thank You! Let us scream to the world that our military is the BEST. Our nation's greatest pride!!

Highlights of the show:

- The colors of Indian Armed forces were put up.



- Wing Commander Abhinandan Varthaman VrC (born 21 June 1983) is an Indian Air Force officer. In the 2019 India-Pakistan standoff, he was held captive for 60 hours in Pakistan after his aircraft was shot down in an aerial dogfight. He was conferred the Vir Chakra gallantry award in August 2019. We also had one of the students mirroring Abhinandan.



EPCET was competing the best colleges in Bangalore and was rewarded a cash prize. What a breath taking event by our participants. The cinclosure was the theme, there was a standing ovation, icing on the cake we won thousand of hearts. All of this wouldn't have been possible without the help of our principal who made impossible possible and our management. Concept director & Script writer: Ms Varnata singh (7th sem, ISE dept). Choreographer: Mr. Nikesh Jain (Asst. prof Civil dept). Script narrator: Mr Shashank kumar pathak (7th sem, ECE dept).

# DEPARTMENTS OF EPCET





# THE CLUBS

**Art and literature club:** Creating and expressing oneself has been a desire of mankind since the beginning of time. Both Art and Literature have been used to express man's deepest observations, the most profound thinking, and the firmest beliefs. Look through our world of silent words and speaking pictures and discover mankind's fascination with self-expression



**Dance club:** When you dance, you can enjoy the luxury of being you. Dance is a powerful impulse, but the art of dance is that impulse channeled by skillful performers into something that becomes intensely expressive and delights the spectators. Look through our luxurious world of being you.

**Dramatics club:** Life is like a play. It's not the length, but the excellence of acting that matters. Look through our world of Dramatics and experience the navarasa, Shringara(Love/Beauty), Hasya(Laughter), Karuna(Sorrow), Raudra(Anger), Veera(Courage), Bhayanaka(Fear), Bibhatsya(Disgust), Adbhutha(Wonder), and Shanta(Peace).



**Entrepreneurship club:** As we look into the next century, leaders will be those who empower others. The Entrepreneurial club is all about providing opportunities to enrich entrepreneurship skills. Look through our world of burning passion and new ideas, making dreams come true and creating meaningful change in the world.

**Fashion club:** Style is a way to say who you are without having to speak. Fashion is not just about the costume or walk, it's also how comfortable we are in what we are wearing. Creating trend in one's comfort is what we focus on. Look through our world of fashion and experience great style.



**Music club:** Music in itself is healing. It is something we are all touched by. It is the rhythm to the soul, wings to the mind and flight to the imagination. Look through our world of celebrating different genres of music, emotions and talent.

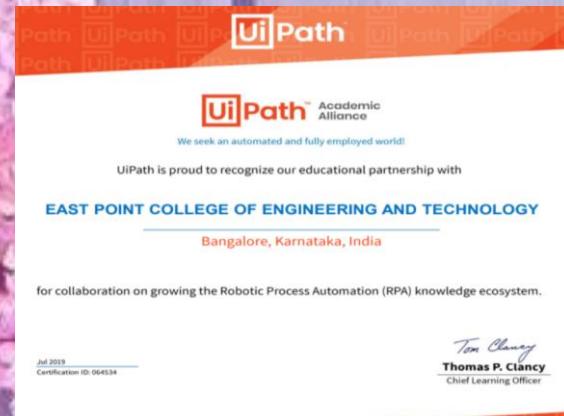
**Photography club:** Photographs opens the doors into the past, but they also allow a look into the future. It is an ocean of emotions capturing the precious tiny moments of a person's life. Look through our world of not only capturing light, but emotions and tranquillity.



**Technical club:** The great growling engine of change is technology. It is all about learning, creating and empowering mankind. Technology and social media plays a major role in this rapidly progressing world. Look through our elements of techno world, knowledge, coding and media.

# ADHAAN

## EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY SIGNS MOU WITH UIPATH, GLOBAL AUTOMATION COMPANY



East Point College of Engineering & Technology, Bangalore, announced the signing off an Agreement with UiPath, the global software company that develops a platform for Robotic Process Automation (RPA). The agreement under UiPath Academic Alliance program will help East Point ramp up educators with skills of the future and also offer courses related to Robotic Process Automation (RPA) to its students. East Point will receive curriculum, course content, learning materials, regular educator training and software tools, to provide training to their students. UiPath will also provide program support in terms of examination papers and sample assignments. UiPath will be able to leverage the competency of students in Artificial Intelligence & Automation.

## COMPANIES VISITED FOR PLACEMENTS



## LIST OF STUDENTS PLACED



**M/s TATA CONSULTANCY SERVICES**

<b>Sl No.</b>	<b>Name</b>	<b>Department</b>
1	ADITYA SINHA	Computer Science Engineering
2	ANJALI KUMARI	Computer Science Engineering
3	HERSCHELLE SARASWAT	Computer Science Engineering
4	SUDHA SIDRAI KOKITKAR	Computer Science Engineering
5	ANUPAM KAUSHIK	Information Science Engineering
6	BHAVANA S	Information Science Engineering

**M/s SYMPHONY RETAIL AI**

<b>Sl No.</b>	<b>Name</b>	<b>Department</b>
7	KEERTHI S GUDUR	Computer Science Engineering
8	HARIPRIYA N	Computer Science Engineering

**M/s ZENSAR TECHNOLOGIES**

<b>Sl No.</b>	<b>Name</b>	<b>Department</b>
9	BHAVISHYA P	Information Science Engineering

**M/s MPHYSIS**

<b>Sl No.</b>	<b>Name</b>	<b>Department</b>
1	NEELAM NISHAD	Computer Science Engineering
2	SHRUTHI.S	Computer Science Engineering
3	HARITH G R	Computer Science Engineering
4	BHAVISHYA P	Information Science Engineering

**M/s INFOSYS LTD**

<b>Sl No.</b>	<b>Name</b>	<b>Department</b>
14	AISHWARYA S	Computer Science Engineering
15	AKARSH S V	Computer Science Engineering
16	ANJALI KUMARI	Computer Science Engineering
17	AVINASH KUMAR SINGH	Computer Science Engineering
18	ADITYA SINHA	Computer Science Engineering
19	HARIPRIYA N	Computer Science Engineering
20	HARITH G R	Computer Science Engineering
21	HERSCHELLE SARASWAT	Computer Science Engineering
22	LAKSHMIPRIYA V	Computer Science Engineering
23	MOHIT KUMAR	Computer Science Engineering
24	NISHU DWIVEDI	Computer Science Engineering

25	PRAJWAL S	Computer Science Engineering
26	SUDARSHAN P	Computer Science Engineering
27	VIGNESH R	Computer Science Engineering
28	AKHILASH K	Information Science Engineering
29	ANAM HAFEEZ	Information Science Engineering
30	BHAVISHYA P	Information Science Engineering
31	MAHESH K	Information Science Engineering
32	MANISHA BISHT	Information Science Engineering
33	PRADEEP SURESH NAIK	Information Science Engineering
34	RASHMI J	Information Science Engineering
35	REVATHI V	Information Science Engineering
36	SREERAJ P H	Information Science Engineering
37	PALLAVI. B	Electronics and Communication Engineering
38	SUPREETH BADARI. B M	Electronics and Communication Engineering
39	ANIRUDH SAI VIRUPAKASHAM	Mechanical Engineering
40	ASHISH PUROHIT	Mechanical Engineering
41	NANDAKISHORE Y	Mechanical Engineering







SAVISHKAR  
સવિશ્કાર