



# SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Information Science and Engineering

## Inspire zone

April 2020

### VISION

To excel as a hub of disseminating knowledge and nurturing innovative ideas in information technology through learning and performance for the benefit of the society.

### MISSION

- ✓ To facilitate experiential learning environment for student community.
- ✓ To cultivate teamwork and ethical values amongst the student community and nurture them as responsible information technology professional in the society.
- ✓ To encourage student community to develop aptitude to innovate and inculcate enterprising qualities of job creators.
- ✓ To strengthen the rapport with reputed information technology organizations to build quality industry-academia network.

**Chairman: Sri G. Dayanand**

The newsletter of the department ISE is providing great space for the faculty and students to pen down their innovative ideas, imagination and perceptions to show case their creativity. So, I take the opportunity to congratulate the department of ISE and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating



**Executive Director: Sri G. DManoj**

I am indeed happy to know that the department of ISE has taken initiative in realizing its monthly newsletter and urge faculties and students to make use of the platform to share and educate among themselves in publishing article pertaining to the emerging domain and articles of interesting. I congratulate the team of editorial community and department of ISE



**Principal's Desk: Dr. H Ramakrishna**

It gives me immense pleasure to note that, SCE has been publishing bi-annual newsletter and I am sure, this will provide an opportunity for the faculty and students to share their knowledge and beacon the information about various issues and activities that are being taking place in the department. I look forward for more activities and achievements for the department to march towards excellence in the future. I would like to thank all teaching, supporting staff and our beloved students for their active participation in publishing this magazine. My special compliments and congratulation to the editorial team of the department for their consistent effort in publishing this newsletter.



## Vice Principal's Desk: Dr. M HAnnaiah

I am very happy and delighted to know that our college is bringing Out the college newsletter. SCE is one of the leading premier engineering colleges in the country offering quality technical education to students thereby enabling them to become globally acceptable engineers in their domains. The newsletter provides a platform for both faculty and students to showcase their achievements and hidden talents. I congratulate our beloved principal and members of editorial board for bringing out this excellent and informative newsletter on time.



## HOD's Desk : Dr. H R Ranganatha

We are presenting you April 2020 newsletter. Our goal is to create a new forum for exchange of information on all aspects of information science. Future scope of the INSPIRE ZONE is open to your suggestions. I would like to encourage you to submit original research notes as well as opinions, technical reports and short communication in general area of interest.



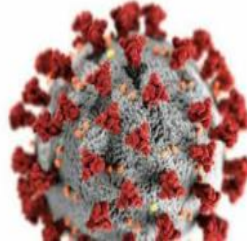
### ಲಾಕ್ಡೌನ್ ನ ದಿನಚರಿ

ಯಾವಾಗಲೂ ಊರಿಗೆ ಬಂದಾಗಲೆಲ್ಲ ಒಂದು ದಿವಸ ಅಥವಾ ಎರಡು ದಿವಸ ಇದ್ದು ಹಾಗೆ ವಾಪಸ್ ಹೋಗುತ್ತಾ ಇದ್ದೆವು. ಆದರೆ ಈ ಸಲ ಹಾಗಾಗಲಿಲ್ಲ ಕೊರೋನಾ ಹಾವಳಿ ಇಂದಾಗಿ ಬರೋಬ್ಬರಿ ಮೂರು ವಾರಗಳ ವರೆಗೆ ಊರಲ್ಲೇ ಇನ್ನೂ ಇದ್ದೇವೆ. ಮೊದಲೆರಡು ದಿನ ನನ್ನಲ್ಲಿ ಕಳೆದು ಹೋಗಿದ್ದ ಕವಿತೆ ಬರೆಯುವಂತಹ ಹವ್ಯಾಸಕ್ಕೆ ನಾನು ಮತ್ತೆ ಜೀವ ತುಂಬಿದೆ, ಬರೆಯಲು ಶುರು ಮಾಡಿದೆ.

ತದನಂತರ ಅತ್ತೆಗೆ ಅಡಿಗೆಗೆ ಸಹಾಯ ಮಾಡುವುದು, ಹೊಸ ತಿಂಡಿಗಳ ಪ್ರಯೋಗ ಹಾಗೆ ಬಿಡುವಿದ್ದಾಗ ಮೊಬೈಲ್ ನಲ್ಲಿ ನನ್ನ ಪ್ರಮುಖ ಹವ್ಯಾಸವಾದ ಕಾದಂಬರಿಗಳನ್ನು ಓದೋದು, ಮನೆಯವರೆಲ್ಲರ ಜೊತೆ ಕೂತು ಒಂದೊಳ್ಳೆ ಸಿನಿಮಾ ನೋಡೋದು ಹೀಗೆ ನನ್ನ ದಿನಚರಿ ಮುಕ್ತಾಯ ಗೊಳ್ಳುತ್ತಿತ್ತು. ಎಲ್ಲರೂ ಈ ಸಮಯದಲ್ಲಿ ನಿಮ್ಮ ಕಳೆದು ಹೋದ ಹವ್ಯಾಸಗಳನ್ನು ಮತ್ತೆ ಮೈಗೂಡಿಸಿ ಕೊಳ್ಳೋಣ.

ಕೊರೋನಾ ವನ್ನು ಹೋಗಲಾಡಿಸಲು ನಮಗಿರುವ ಒಂದೇ ಒಂದು ದಾರಿ ಎಂದರೆ ನಾವೆಲ್ಲರೂ ನಮ್ಮ ಮನೆಯಲ್ಲೇ ಇರುವುದು. ಆಗ ಮಾತ್ರ ನಾವು ಈ ಕೊರೋನಾ ದಿಂದ ಗೆದ್ದು ಬರಲು ಸಾಧ್ಯ, ನಮ್ಮ ಇಡೀ ವಿಶ್ವ ಗೆದ್ದು ಬರಲು ಸಾಧ್ಯ.

- ಚೈತ್ರ ಬಿ. ಎಂ.



### Inside the Issue

- ❖ Faculty Article
- ❖ Workshop attended by Faculty
- ❖ Students Corners

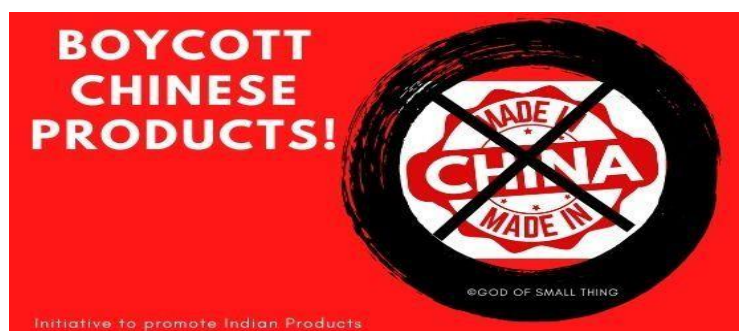
## Workshop Attended By Faculty

1. Prof. Prerana Chaithra attended 1 day online FDP on “**Outcome-Based Education**” organized by InPods Ed-tech, Bengaluru on 29/4/2020.
2. Prof. Prerana Chaithra attended 5 days AICTE Training and Learning Academy online FDP on “**Internet of Things**” organized by IIIT, Nagpur from 25/4/2020 to 29/4/2020.
3. Prof. Prerana Chaithra attended 1 day online FDP on “**Designing and Building Globally Accessible Digital Products**” organized by CS&A Dept, SRM Institute of Science & Technology, Chennai on 24/4/2020.
4. Prof. Prerana Chaithra attended two days Faculty Development Programme on “**Machine Learning and Tools**” organized by Dept. of CSE at S.C.E., Bengaluru on 30/2/2019 and 31/2/2019.
5. Prof. Sudarsanan D , Gayathri R attended two weeks FDP on “**Latex**” conducted by Gopalan College of Engg & management from 17/04/2020 to 30/04/2020.

## STUDENTS CORNER

### BOYCOTT CHINA PRODUCTS

- P Arahanth jain(7<sup>th</sup> sem,ISE)



#### Why can't government ban all Chinese products at once ...?

At present we are too dependent on China. India imports from China worth US\$ 90,398 million, with a partner share of 14.63 percent. When it comes to exporting India exports to China worth US\$ 16,366 million, with a partner share of 5.08 percent. If India boycott all Chinese products at once, China will be under loss of only 2 percent of their total export, but for India it's a huge loss, Most of the Industries import raw materials from China without that raw materials it's difficult manufacture their products. At least 70 percent of India's drug intermediary needs are fulfilled by China.

In India we use 60 percent of electronic equipments,30 percent of automobile products, 90 percent of toys which are imported from China. Before boycotting all Chinese products, Government has to find an alternative products or have to start manufacturing the products of the same cost as China exporting. On the other side it's a difficult task to manufacture the products of a good quality at low price. Chinese were manufacturing the products of good quality at low price because, The Industries in China is very large to manufacture more number of products (compare to other countries) therefore the production cost will be less, compare to India and other

countries. Government needs more time to find better alternatives, After finding alternatives Government can slowly boycott all the Chinese products.

## **WHY AI IS REALLY GOING TO CHANGE THE WORLD**

**Artificial intelligence (AI)** refers to the ability of machines to interpret data and act intelligently, meaning they can make decisions and carry out tasks based on the data at hand – rather like a human does.

Chances are you've read a lot about AI in recent years – particularly how it's going to save the world or end civilization as we know it. It's certainly true that AI attracts a lot of hype and some colourful predictions. But, much of the hype surrounding AI is entirely justified. It truly is a transformative technology – one that will dramatically alter our lives in very real ways.

Here are five reasons why AI is going to change the world in 2020 and beyond

### **1. AI is everywhere**

Ever asked Alexa for the morning weather report, or passed through a public space that uses facial recognition technology, or paid for something using your credit card, or bought a product recommended to you by Amazon? Of course, you have. Most of us have done one or all of these things, probably in the last week. Probably in the last 24 hours. And all of these everyday processes are underpinned by AI and data. AI is already deeply embedded in your everyday life, and it's not going anywhere.

### **2. AI isn't just infiltrating everyday life, it's going to transform entire industries**

The impact of AI is already being felt in a wide range of industries, from banking and retail to farming and manufacturing. In healthcare, AI is being used to identify (predict) disease, helping healthcare providers and their patients make better treatment and lifestyle decisions. AI systems can even outperform human experts when it comes to identifying disease; in January 2020, clinical trials of AI software developed by Google Health confirmed that the software was better at spotting signs of cancer in mammograms than radiologists. The system also flagged fewer “false positive” results than the experts

### **3. AI will make us more human, not less**

As machines become more intelligent, they can carry out more and more tasks – leading to rising automation across most industries. With this rise in automation comes valid concerns about the impact on human jobs. But, while there's no doubt that automation will lead to the displacement of many jobs, it will also create new jobs – jobs that value our uniquely human capabilities like creativity and empathy. AI will also make our working lives better. Journalism is one industry that's undergoing an AI revolution, and there are many AI tools that help journalists identify and write stories. At Forbes, an AI-driven content management system called Bertie is used to identify real-time trending topics, suggest improvements to headlines, and identify relevant images. This reduces some of the behind-the-scenes legwork for journalists, leaving them to focus on telling the story.

#### **4. AI is becoming more affordable for the masses**

It used to be that to work with AI you'd need expensive technology and a huge team of in-house data scientists. That's no longer the case. Like many technology solutions, AI is now readily available on an as-a-service basis – with a rapidly growing range of off-the-peg service solutions aimed at businesses of all sizes.

As an example, in 2019, Amazon launched “Personalize,” an AI-based service that helps businesses provide tailored customer recommendations and search results. Incredibly, Amazon says no AI experience is needed to train and deploy the technology.

#### **5. AI fuels other technology trends**

AI is just one of 25 technology trends that will transform our society. It is the foundation on which many other technology trends are built. Essentially, this means that, without AI, we wouldn't have achieved the amazing recent advances seen in areas like virtual reality, chatbots, facial recognition, autonomous vehicles, and robotics (and that's just to name a few). Almost any recent transformative technology or scientific breakthrough, and, somewhere along the way, AI has played a role. For example, researchers can now read and sequence genes quickly, and this knowledge can be used to determine which drug therapies will be more effective for individual patients.

- Sachin (Final Year Student)

### **Program Educational Objectives**

**PEO1:** Graduates will be able to successfully gain theoretical and practical knowledge to identify and solve challenges in Information Science and Engineering.

**PEO2:** Graduates will begin their career in IT industry, academia, management and research to engage in lifelong learning.

**PEO3:** Graduates will exhibit inclination towards the needs of the society through ethics and service.

### **Program Specific Outcomes (PSOs)**

**PSO1:** Apply mathematical methodologies to solve problem, analyze, data structure with suitable algorithms

**PSO2:** Design and evaluate computer components and information systems using technology with suitable platform.

**PSO3:** Build strong skills in learning new programming environments to automate things and simplify real world problems.

## **Editorial Board**

**Chief Editor:** Dr. H R Ranganatha HOD, ISE

**Sub Editor:** Prof Praneetha G N Assistant Professor, ISE

Prof Divya B S Assistant Professor, ISE

**Student Member:** Akshay P  
Sachin G

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