



**Report on Technical Talk (24/08/2018)**

**On**

**“Operating Systems and its Applications”**

**By**

**Dr. Shashidhar G. Koolgudi**

**Professor, Dept of CSE**

**NITK, Surathkal**

The department of ISE organized a technical talk on 24<sup>th</sup> August 2018 which was delivered by **Dr. Shashidhar G. Koolgudi**. The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “Operating Systems and its Applications”.

In this session, first he spoke about multitasking operating system where multiple programs can be running at the same time, the operating system determines which applications should run in what order and how much time should be allowed for each application before giving another application a turn. It manages the sharing of internal memory among multiple applications.

He briefly told about various applications like, An OS enables coordination of hardware components. Each hardware device speaks a different language, but the operating system can talk to them through the specific translational softwares called device drivers. Every hardware component has different drivers for Operating systems. These drivers make the communication successful between the other softwares and the hardware etc.

He then answered a few questions which the students had. With this interactive session he was able to increase our knowledge about Artificial Intelligence.

Finally on behalf of the Management, Principal, Staff and students, we would thank Dr. Shashidhar G. Koolgudi for delivering the Technical Talk.



# **ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI – 574 225**

**PHONE: 08258-262725 FAX: 08258-262726**

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**





**Report on Technical Talk (14/09/2018)**

**On**

**“Artificial Intelligence and machine Learning**

**By**

**Mr. Raviraja Bhat  
Senior Developer  
Tech Mahindra, Bengaluru**

The department of ISE organized a technical talk on 14<sup>th</sup> September 2018 which was delivered by Mr. Raviraja Bhat. The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “**Artificial Intelligence and Machine Learning**”. He is currently an employee in Tech Mahindra, Bengaluru.

In this session, Mr. Raviraja Bhat first spoke about Artificial Intelligence and it is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think Strong artificial intelligence or, True AI, may refer to: Artificial general intelligence, a hypothetical machine that exhibits behavior at least as skillful and flexible as humans do, and the research program of building such an artificial general intelligence.

He briefly told about Machine learning and it is a core sub-area of artificial intelligence; it enables computers to get into a mode of self-learning without being explicitly programmed. So, put simply, the iterative aspect of machine learning is the ability to adapt to new data independently. Machine Learning. Machine learning is a branch in computer science that studies the design of algorithms that can learn. Typical tasks are concept learning, function learning or “predictive modeling”, clustering and finding predictive patterns.

He then answered a few questions which the students had. With this interactive session he was able to increase our knowledge about Artificial Intelligence.

Finally on behalf of the Management, Principal, Staff and students, we would thank Mr. Raviraja Bhat for delivering the Technical Talk.



## **Report of Technical Talk**

**On**

**“IOT and its Applications”**

**By**

**Dr. Mouneshachar S**  
**Assoc Professor,**  
**Dept of CSE**  
**GMIT, Davanagere**

The department of ISE organized a technical talk on 15<sup>th</sup> February 2019 which was delivered by **Dr. Mouneshachar S**. The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “IOT and its Applications”.



In this session, first he spoke about Internet of Things (IoT) has been paid more and more attention by the government, academe and industry all over the world because of its great prospect. He introduced the concept of IoT, the basic properties and characteristics. Then discussed the key technologies of IoT in detail taking the wire-less sensor as an small experiment, and the application of IoT was illustrated by its typical use in environment monitoring.



## **Report of Technical Talk**

**On**

**“Industrial Automation with Computer Vision”**

**By**

Mrs. Shishira

Associate Scientist corporate research centre

ABB, Bengaluru

The department of ISE organized a technical talk on 01<sup>st</sup> March 2019 which was delivered by **Mrs. Shishira**. The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. She spoke on the topic of “Industrial Automation with Computer Vision”.



In this session, first she spoke about Computer vision is concerned with modeling and replicating human vision using computer software and hardware. It combines knowledge in computer science, electrical engineering, mathematics, physiology, biology, and cognitive science. It needs knowledge from all these fields in order to understand and simulate the operation of the human vision system

She briefly explained evolution of automation from 1970 to till today she focused upon programmable logic controllers and its control during automation process .spoke about how the automation process carried out in industry, factory automation has been the most successful application for computer vision.



## **Report of Technical Talk**

**On**

**“Big Data Analytics for the Computer Vision Problems”**

**By**

Dr.Suresh D

Professor, Dept of CSE

Canara Engineering College, Mangalore

The department of ISE organized a technical talk on 08<sup>th</sup> March 2019 which was delivered by **Dr. Suresh D.** The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “Big Data Analytics for the Computer Vision Problems”.



In this session, first he spoke about Big data analytics examines large amounts of data to uncover hidden patterns, correlations and other insights. With today's technology, it's possible to analyze your data and get answers from it almost immediately

He briefly explained about computer vision is a field that includes methods for acquiring, processing, analyzing and understanding images, It duplicate the abilities of human vision by electronically perceiving and understanding the image. Image data can take many forms, such as a video sequence, depth images, views from multiple cameras, medical scanner, satellite sensor etc...





## **Report of Technical Talk**

**On**

**“Design Thinking-A New Approach to Software Design”**

**By**

Mrs. Harini Shah

Team Lead , Accenture Bangalore

The department of ISE organized a technical talk on 29<sup>th</sup> March 2019 which was delivered by **Mrs. Harini Shah** the technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “Design Thinking”.



In this session, first She spoke about Design Thinking is a design methodology that provides a solution-based approach to solving problems. It's extremely useful in tackling complex problems that are ill-defined or unknown, by understanding the human needs involved, by re-framing the problem in human-centric ways, by creating many ideas in brainstorming sessions, and by adopting a hands-on approach in prototyping and testing. Understanding these five stages of Design Thinking will empower anyone to apply the Design Thinking methods in order to solve complex problems that occur around us.



## **Report of Technical Talk**

**On**

**“Concept of Network Protocol in Industry”**

**By**

Mr. Santhosh Kumar S B

Project Manager, Intel Technology India Private Limited  
Bengaluru

The department of ISE organized a technical talk on 23<sup>rd</sup> April 2019 which was delivered by **Mr. Santhosh Kumar S B**. The technical talk was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “Concept of Network Protocol in Industry”.



In this session, first he spoke about Internet Protocol Television (IPTV) and then explained Broadband network access is gaining ground, Standalone PC is waning. Internet enabled devices are common and usually more than one in Home, Hand held devices – Smartphone's, tablets, etc..Online video services are becoming popular

- Video on demand (VoD)
- Unicast video services (ex: YouTube)
- IPTV application is growing rapidly → Multicast technology