



Report on Technical Talk (9/09/2017)

On

“Digital Image Processing and it's Applications”

By

Dr. Siddappa M

The department of ISE organized a technical talk on 9th September 2017 which was delivered by Dr. Siddappa M, Associate Professor, SSIT, Bengaluru on the topic “**Digital Image Processing and it**”. He was awarded with the “Rajaram Bapu Patil” national award in 2011.

In this session Dr. Siddappa M, with his presentation on digital image processing helped us in understanding how image processing works. He also explained the importance of image processing in today's world. He stressed on the importance of image processing and its applications. He then explained how the images are classified based on their pixel rating so as to determine the method of image processing. He showed a few examples of image processing where a blur images providing not much of information was converted to a clear, informative image. His talk surely helped us in developing interest in image processing

Finally, on behalf of the Management, Principal, Staff and students we would like to thank Dr. Siddappa M for delivering the Technical Talk.





Report on Technical Talk – 2 (16/09/2017)
On
“Multi-modal Biometrics for Person Authentication and
Security”
By
Dr. H S Jayanna

The department of ISE organized a technical talk on 16th September 2017 which was delivered by Dr. H S Jayanna, Professor, Dept. of ISE, SIT, Tumkur on the topic “Multi-modal Biometrics for Person Authentication and Security”.

Dr. H S Jayanna explained about importance of Biometrics, Different types of Biometrics, Multi-modal of Biometrics, and Digital India. He explained the students about the application of biometrics. Some of the applications include- Computer system login, ATM, cellphones etc. He showed how dynamic the application of biometric can be.

There exist many types of biometrics which he explained to the students. Some of the biometrics includes - Face, Fingerprint, Speech, Palm, Retina.

He conveyed his topic in a very efficient manner and has encouraged students to take up projects on biometrics.

Finally on behalf of the Management, Principal, Staff and students we would like to thank Dr. H S Jayanna, for delivering the Technical Talk.





Report on Technical Talk – 3 (18/09/2017)
On
“Internet of Things 2020: A Glimpse into the Future”
By
Dr. Ashok Kumar. P. S

The department of ISE organized a technical talk on 18th September 2017 which was delivered by Dr. Ashok Kumar. P. S, Prof. and Head, Dept. Of ISE, DBIT on the topic “Internet of Things 2020: A Glimpse into the Future”.

Dr. Ashok Kumar. P. S began his session by explaining student what IoT actually means. He briefly explained the students about the working of IoT. IoT is the network of real or virtual objects or things embedded with electronic sensors, softwares for connectivity which enables these object to collect and exchange information providing connectivity at anytime, anyplace. He has shown how the IoT existed in the early 80's and how it evolved overtime.

He also described about various sensors which are available today. Some of the available sensors are: Proximity Sensors, Ambient Sensors, and Barometer Sensors etc. Various applications of IoT in today's world were showcased in the session. It was a very interactive session where students of Dept of ISE surely did learn about IoT.

Finally on behalf of the Management, Principal, Staff and students we would like to thank Dr. Ashok Kumar. P. S, for delivering the Technical Talk.





Report on Technical Talk – 4 (06/10/2017)

On

“Computer Vision and its Application”

By

Dr. Suvarna Nandyal

On 6th October 2017, Dept. of ISE conducted a technical talk by the resource person Dr. Suvarna Nandyal, Professor and Head, Dept. of CSE, PDA college of Engineering, Kalaburgi. She addressed the students about “Computer Vision and its Application”.

Computer vision is an interdisciplinary field that deals with how computers can be made for gaining high-level understanding from digital images or videos. From the perspective of engineering, it seeks to automate tasks that the human visual system can do

She began her session by describing the importance of image processing. She told about the various important application of image processing of which some includes- pattern recognition, artificial intelligence, robotics, computer graphics etc. She explained various problems associated with image processing.

She concluded the talk by giving some project ideas and answers to student queries. Finally, on behalf of Management, Principal and Department of ISE, we would like to thank Dr. Suvarna Nandyal.





Report on Technical Talk – 5 (06/11/2017)

On

“Robotic Process Automation-RPA”

By

Mr. Sudarshan Rao

The department of ISE organized a technical talk on 6th November 2017 which was delivered by Mr. Sudarshan Rao, Accenture, Bengaluru on the topic **“Robotic Process Automation”**.

In this session Mr. Sudarshan Rao first showed us a small video which threw light on process automation. Robotic process automation is an emerging form of clerical process automation technology based on the notion of *software robots* or artificial intelligence (AI) workers. He gave a brief description about RPA.

The hosting of RPA services also aligns with the metaphor of a software robot, with each robotic instance having its own virtual workstation, much like a human worker. The robot uses keyboard and mouse controls to take actions and execute automations. Normally all of these actions take place in a virtual environment and not on screen; the robot does not need a physical screen to operate, rather it interprets the screen display electronically.

UI-path is an open source tool used for RPA. He demonstrated the working of the tool to the students. After that there was an interactive session of Mr. Sudarshan Rao with the students.

Finally on behalf of the Management, Principal, Staff and students we would like to thank Mr. Sudarshan Rao, for delivering the Technical Talk.





Report on Technical Talk (12/04/2018)

On

“Android application programming”

By

Mr. Anant Kulkarni

The department of ISE organized a technical talk on 12th April 2018 which was delivered by Mr. Anant Kulkarni Senior Director of Engineering, Gigsky india Pvt Ltd, Bengaluru on

“Android application programming”.

In this session Mr. Anant Kulkarni with his presentation on Android application programming helped us in understanding how Android application works. He also explained the importance of Android application Programming in today's world. He stressed on the importance of programming and its applications. He then explained depth information about the Android Architecture, Application Development. He showed a few examples of android applications. His talk surely helped us in developing interest in Android application development

Finally, on behalf of the Management, Principal, Staff and students we would like to thank Mr. Anant Kulkarni for delivering the Technical Talk.



Report on Technical Talk (9/04/2018)

On

“Android application programming”

By

Prof Padma Reddy

The department of ISE organized a technical talk on 9th April 2018 which was delivered by Prof.A.M Padma Reddy Professor & Dean, Dept of CSE,SVIT, Bengaluru on “**programming Skills**”.

In this session Prof Padma Reddy with his presentation on C programming helped us in understanding basics of programming. He also explained the importance of functions and pointers of C language He stressed on the importance of programming and its applications. He then explained the data structures and applications. He showed a few examples of C programs. His talk surely helped us in developing interest in programming language

Finally, on behalf of the Management, Principal, Staff and students we would like to thank Prof Padma Reddy for delivering the Technical Talk.





Report on Technical Talk (8/02/2018)

On

“Block Chain Technologies”

By

Mr.Prahalad Belvadi

Hexon Global , Bengaluru

The department of ISE organized a technical talk on 8th February 2018 which was delivered by Mr. Prahalad Belvadi. The technical talk was inaugurated by Mr. Vivek Alva Managing trustee along with Dr. Dattatreya , Dean(Planning), Head of the department Mr. Jayant Kumar A Rathod, Forum coordinator Mr. Manjunath H.R and other faculties. He spoke on the topic of “**Block chain technology**”. He is currently an employee in HEXON Global,Bengaluru.



In this session, Mr. Prahalad Belvadi first spoke about cryptography and security related issues. He then described what BITCOIN is all about. He told the meaning of crypto-currency. Since BITCOIN is managed using networks, security becomes important. The security method used here is Block-Chain. He explained the concept of Block chain. He then showed comparisons of various IT sectors to the BITCOINS, the profit comparison was also shown. He told a few words about the history of BITCOINS. He then showed videos to



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describe the working principle of bitcoins and block-chain. He also spoke about Ethereum which is a platform for managing the crypto-currency. Then he also described other crypto-currency which are present like the NameCoin, Ripple, Z-cash, Lite-coin etc. He then answered a few questions which the students had. With this interactive session he was able to increase our knowledge about bitcoins and crypto-currency.

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



TECHNICAL TALK -2017-18

1. Technical talk on “Overview on Communication Systems and Introduction to IETE Student Chapter”

The department of ECE organized a technical talk on “Overview on Communication Systems and Introduction to IETE Student Chapter” for the students of fourth and sixth semester on 11th April 2018 by Prof. H S Bhatia., Hon. Secretary, IETE Bangalore.



2. Technical talk on “Advancement in RF and microwave test and measurement”

The department of ECE organized a technical talk on 9th March 2018 which was delivered by Mr. Nikhil Mitaliya, Application Engineer, Tektronics Bengaluru on the topic

“Advancement in RF and microwave test and measurement”. Mr. Mitaliya has more than 8 Years of experience in Testing.



3. Technical talk on “Optical Networks and its Applications”

The department of ECE organized a technical talk on 3rd March 2018 by Dr. Muralidhar Kulkarni, Professor, Dept. of ECE, NITK Suratkal on the topic “Optical Networks and its Applications” for the students of sixth semester.



4. Technical talk on “Statistical Signal Processing”

The department of ECE organized a technical talk on 17th February 2018 delivered by Dr. H V Kumaraswamy Professor, RVCE, Bengaluru. The talk was on the topic “Statistical Signal Processing” for the students of sixth semester ECE.



5. Technical talk on “RF Design and Planning”

The department of ECE organized a technical talk on 17th February 2018 by Dr. Sudheendra K R, Associate Professor, BMSCE Bangalore. The topic was about “RF Design and Planning” for the students of fourth semester ECE, included the designing of RF circuits used in networks, related to wireless and mobile communications.



6. Technical talk on “Applications of DSP in embedded system”

The department of ECE organized a technical talk on 10th November 2017 was delivered by Dr. U.C. Niranjan Adjunct. Professor, M I T Manipal, on the topic “Applications of DSP in embedded system” . Different applications of signal processing in embedded systems

designed for medical imaging, computer graphics, home theatre and telecommunications etc. are highlighted in the talk by the resource person.



7. Technical talk on “Introduction to image and video compression”

The department of ECE organized a technical talk on 13th October 2017 was delivered by Dr. Aparna P , Professor, N.I.T.K.Suratkal on the topic “Introduction to image and video compression”. Two major categories namely lossless and lossy compression were discussed.



8. Technical talk on “Multimodal Biometrics”

Security is becoming a most important requirement of present day life and developing computer aided person recognition system is of increasing demand. Related to this, technical talk was conducted on 12nd October 2017 by Dr. K. A. Radhakrishna Rao, Professor and Head, Dept. of ECE, P.E.S.C.E. Mandya on the topic “Multimodal Biometrics”. Important issues of Biometric processing, role of Biometrics in recognition and identification, developing and commercializing software for biometric system with 100% accuracy were discussed.



9. Technical talk on “Applications of Engineering Electromagnetics”

The department of ECE organized a technical talk on 22nd September 2017 which was delivered by Dr. U.B. Mahadevaswamy, Professor, S.J.C.E. Mysore on the topic “Applications of Engineering Electromagnetics”. This talk was mainly on making 3rd Semester students confident in the subject Engg. Electromagnetics which is considered as difficult subject by most of the students. Talk was well organized and presented in simplest way from the basic concepts of charge and fundamental laws of Electromagnetics.



10. Technical talk on “Speech Processing and Applications”

Forum EVIONICS under Department of ECE conducted the technical talk of the on 24th August, 2017 delivered by Dr. Shashidhar Koolgudi, Asst. Professor, NITK Suratkal on the topic “Speech Processing and Applications”. Talk was arranged for 5th semester students with main focus of exposing the students to various domains such as speech recognition, speech coding and speech synthesis



TECHNICAL TALK -2016-17

1. Technical talk on “Multibiometrics to Aadhaar”

The technical talk was delivered by Dr. Ashok Rao, who was the head of Centre for Electronic Design and Technology (CEDT), Ilsc, Bengaluru on 8th April 2017. He is one of the leading figures in the area of Digital Signal Processing, also specialized in Renewable energy, Biometrics, Linear algebra and Multimedia and currently he is the advisor for research, DTE, Govt. of Kerala.

