



# Mangalore Institute of Technology and Engineering

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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ACADEMCI YEAR 2018-19			
Sl.No	Event	Resource Person	Date
1	Technical Talk on “IT Technology Landscape”	<b>Mr.Vipin Kumar N,</b> Technical Lead, Java Track-ETA Wing Infosys Ltd., Mangalore	28 <sup>th</sup> Sep 2018
2	Technical Talk on “Case Study on Mathematical Modeling”	<b>Dr. Ganesh Aithal,</b> Dean (R&D) &Professor, Dept of CSE,MITE, Moodabidri	1 <sup>st</sup> March 2019
3	One Day Workshop on “Cyber Security”	<b>Mr.Navaneeth Krishnan,</b> Cyber Security Analyst and Certified Ethical hacker, TCS, Chennai.	11 <sup>th</sup> March 2019
4	One Day Workshop on “Linux for Computer Science”	<b>Mr. Manmohan K,</b> Asst.Professor- Selection Grade, Dept of CSE, MIT, Manipal.	12 <sup>th</sup> March 2019
5	Technical Talk on “Light Field Technology”	<b>Mr.Ramakrishna M,</b> Asst.Professor, Senior Grade, Dept of I&CT, MIT, Manipal	20 <sup>th</sup> March 2019
6	One Day Workshop on “Image Processing using SciLab”	<b>Dr.Venugopal PS,</b> Associate Professor, Dept of CSE, NMAMIT, Nitte	11 <sup>th</sup> April 2019



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## Department of Computer Science & Engineering

### Report on Technical Talk

**Title: Technical Talk on “IT Technology Landscape”**

**Resource Person(s)/ Organization(s):**

**Mr. Vipin Kumar N, Technical Lead Java Track-ETA wing Infosys Ltd , Mangalore.**

**Academic Background:**

- M.Tech. in Computer Science and Engineering.
- B.E. in Computer Science and Engineering.

**Career Profile**

- Team Lead Java Track –ETA Wing Infosys Ltd, 2011-Present.
- Manipal Inst of Technology, Asst Prof-CSE -2007-2011.
- PA College of Engg, Asst Prof-CSE-2005-2007.
- Hewlett Packard-Project Member-2004-2005.

**Technology Skills:**

- Java J2EE, Spring Stack, Micro Services, Hibernate, Struts.

**Role**

- Part of the Research and development wing of Infosys.
- Consultant for Spring Stack, Micro Services Stack.
- Content Development on niche Technologies in J2EE Stack/Spring Stack

**Date(s): 28th September 2018**

**Duration: 2 Hrs.**

**Target Audience: Computer Science Students (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> Year)**



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## **Brief about the event:**

A Technical Talk on IT Technology Landscape by **Mr. Vipin Kumar N, Technical Lead Java Track-ETA wing Infosys Ltd , Mangalore** has enlighten the students on Information Technology revolution and its uses in modern era for different applications. the update on latest technology would be indeed necessary to cope up with software industry demands and provide smart solutions using latest technology. The knowledge on the new era technologies would help the students to provide solutions to the problems with greater efficiency.

## **Keynotes from the address:**

**Mr. Vipin Kumar N, Technical Lead Java Track-ETA wing Infosys Ltd , Mangalore**, delivered a technical talk on “**IT Technology Landscape**” for Computer Science Engineering Students. In his talk, he enlightens the students on the latest technology of IT industry and streamline of revolution in IT Technology. Speaker also showcases the case study based explanation of effectiveness of latest IT technology for modern era business problems. In the end, speaker discussed and suggested to the students to take up challenging problems for their project work and possible use of latest technology for their projects.



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Mr. Vipin Kumar Addressing the students



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## Department of Computer Science & Engineering

### Report on Technical Talk

**Title: Technical Talk on “Case Study on Mathematical Modeling”**

**Resource Person(s)/ Organization(s):**

Dr. Ganesh Aithal, Dean of R&D, Professor, Department of CSE, MITE, Moodbidri.

**Qualification:** M.Tech, Ph.D

**Experience:**

- 29 year (Teaching), 3 year (Industry)

**Profile:**

Dr. Ganesh Aithal, Dean (Research) had completed his B.E from Manipal Institute of Technology in 1984 and worked as Quality Assurance Engineer in BEE ELECTRONICS MACHINES PVT. LTD. He got his masters from Cochin university of science and technology in 1992. Dr. Ganesh Aithal had been awarded his doctoral degree for his research work entitled "Algebraic Structure based on mixed radix system and Chinese remainder theorem for the generation of key sequence and their application in stream cipher system" from NITK Surathkal in the year 2011. He had 15+ publications under his name and had guided one research scholar for his doctoral degree and he's guiding 4 research scholars for the same. He has 29 year of teaching experience and a lifetime member of Indian Society for Technical Education & Institute of Engineers (India)

**Ph.D Guided**

- Anathaprabhu (2011-2016)

**Date(s): 1<sup>st</sup> March 2019**

**Duration: 2 Hrs.**

## Target Audience: Computer Science Students (3<sup>rd</sup> Year)

### Brief about the event:

A Technical Talk on Case Study on Mathematical Modeling by Dr. Ganesh Aithal, Dean (Research) & Professor, Department of CSE, MITE Moodbidri has resolved difficulties of students on understanding the mathematical modeling concepts for computer science application. The wide spread use of mathematical modeling for different computer science applications poses the need of knowledge on mathematical modeling concepts to computer science students. The basic knowledge on mathematical modeling would help the students to use and build mathematical model for their futuristic applications.

### Keynotes from the address:

Dr. Ganesh Aithal, Dean (Research) & Professor, Department of CSE, MITE Moodbidri, delivered a technical talk on “**Case Study on Mathematical Modeling**” for 3<sup>rd</sup> year CSE Students. In his talk, he enlightens the students on the basics of mathematical model and its use for representing different computer science applications. Speaker took the example of case study on Support Vector Machine mathematical model for resolving the student difficulties in understating the SVM concept and its related mathematical notations.





Dr. Ganesh Aithal addressing the gathering



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## Department of Computer Science & Engineering

### Report on Workshop

#### **Title: Workshop on Cyber Security**

#### **Resource Person(s)/ Organization(s):**

Mr.Navaneeth Krishnan, Cyber Security Analyst and Certified Ethical Hacker, Tata Consultancy Services, Chennai.

#### **Experience:**

- 2018-06 - present Tata Consultancy Services Cyber Security Analyst
- Working as a security analyst and penetration tester for one of the largest retail pharmacy and health store chain across the U.S. and Europe.\
- Worked on live projects from Centre for Development of Advanced Computing (C-DAC (T)), Thiruvananthapuram

#### **Education :**

- 2011 - 2015 Mangalore Institute of Technology & EGINEERING, Moodbidri  
BE in **Computer Science & Engineering**
- 2016 - 2018 ER & DCI Institute of Technology, Thiruvananthapuram  
M.Tech in Cyber forensics and information Security

#### **Projects :**

- Detection of IOT Based DDOS Attack
- Blockchain Based Security Framework for IoT Implementations

#### **Conferences :**

- 2017-03 Nullcon - International Security Conference, Goa
- 2017-09 C0c0nX - Hacking And Cyber Security Briefing, Kochi
- 2017-12 National Cyber Defence Summit (VII Edition), Bits Pilani- Goa,
- 2018-03 Nullcon - International Security Conference, Goa
- 2018-04 Kerala Police Cyberdome CODSEC - Policing the Future, Trivandrum

#### **Publications:**

- 2017-04 Challenges and Issues in Big Data Era- A Survey – publication description  
International Journal of Engineering Research in Computer Science and Engineering
- 2018-07 Blockchain Based Security Framework for IoT Implementations - IEEE  
|International CET Conference on Control, Communication, and Computing (IC4)

#### **Certification**

- 2018-07 Certified Ethical Hacker (C|EH v10)
- 2018-10 Nessus Certificate of Proficiency



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**Date: 11 March 2019**

**Duration: One Day.**

**Target Audience: Computer Science Students (3rd Year)**

## **Brief about the event:**

A One Day Workshop by Mr.Navaneeth Krishnan, Cyber Security Analyst and Certified Ethical Hacker, Tata Consultancy Services, Chennai, has ignited the students mind on the issues of cyber security and its impact on internet based transactions. The popularity of internet comes along with negative effect of insecurity to internet based transactions, which poses the need of knowledge on cyber security issues and possible solutions. The basic knowledge of cyber security would help the students to keep their internet based transactions safe and encourage the students to develop new algorithms to provide more security for internet based applications.

## **Keynotes from the address:**

Mr.Navaneeth Krishnan, Cyber Security Analyst and Certified Ethical Hacker, Tata Consultancy Services, Chennai, delivered a one day workshop on “**Cyber Security**” for 3<sup>rd</sup> Year CSE Students. The workshop was conducted in two sessions. In the morning session, the speaker addressed about basics of cyber security and issues related to internet security. In the afternoon Session, the speaker showcased through practical some of the security flaws in existing internet, data breach issues and possible ethical hacking for security issues, data breach.



Student's participation in workshop on cyber Security



Mr. Navaneeth Krishnan addressing the gathering



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## Department of Computer Science & Engineering

### Report on the Workshop

**Title: Workshop on LINUX for Computer Science Engineers**

**Resource Person(s)/ Organization(s):**

**Mr. Manmohan K, Asst.Professor-Selection Grade , CS&Engg. dept., MIT, Manipal.**

**Qualification: B.E., M.Tech(CS).**

#### **CURRENT ACADEMIC ROLE & RESPONSIBILITIES :**

- Assistant Professor - Selection Grade, Department of Computer Science & Engineering.
- Subject coordinator for Computer Communication and Networks.

#### **AREAS OF INTEREST:**

- *Computer Networks and Security, Linux & Open Source Technologies*

**Date(s): 12 March 2019**

**Duration: One Day.**

**Target Audience: Computer Science Students (2<sup>nd</sup> Year)**

#### **Brief about the event:**

A One Day Workshop by **Mr. Manmohan K, Asst.Professor-Selection Grade , CS&Engg. dept., MIT, Manipal**, has enlighten the students on basics of Linux operating system and its use for different applications for computer science students. The knowledge on Linux operating system has been a foundation for computer science students to get into the programming domain. The knowledge on Linux operating system and its features for programming

would help the computer science students to explore more on programming domain with more practicality of understanding.

## Keynotes from the address:

**Mr. Manmohan K, Asst.Professor-Selection Grade , CS&Engg. dept., MIT, Manipal,,** delivered a one day workshop on **“Linux for Computer Science Engineers”** for 2<sup>nd</sup> Year CSE Students. The workshop was conducted in two sessions. In the morning session, the speaker addressed about basics of Linux operating system and its features, mainly on GNU debugger “gdb” for programming and debugging features. In the afternoon Session, the speaker conducted practical hands on session on usage of gdb for programming using example programs. In the end, speaker showcased the other features of Linux operating system for day to day applications.



Mr. Manmohan K addressing the Students



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## Department of Computer Science & Engineering

### Report on Technical Talk

**Title: Technical Talk on “Light Field Technology”**

**Resource Person(s)/ Organization(s):**

Mr.Ramakrishna M, Asst.Professor-Senior Grade ,IC&T. dept., MIT, Manipal

**Qualification:**

- B.E. (CSE), M.Tech. (N/W), Ph.D.\*(Multimedia Communication)

**CURRENT ACADEMIC ROLE & RESPONSIBILITIES:**

- Assistant Professor - Senior Scale in the Department of Information and Communication Technology
- Digital Coordinator - MIT, Manipal

**AREAS OF INTEREST**

- Computer Network, Wireless Communication, Video Coding, Software Defined Networking, OpenFlow Protocol, Scalable Video Coding

**Date(s):20th March 2019**

**Duration: 2 Hrs.**

**Target Audience: Computer Science Students (4<sup>th</sup> Year)**



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## **Brief about the event:**

A Technical Talk on Light Field Technology by Mr. Ramakrishna M, Asst. Professor-Senior Grade, IC&T. dept., MIT, Manipal has enlightened the students on improvement in camera technology and its impact towards acquiring high quality images. Camera technology has been a backbone for Image processing, which poses the need of knowledge on improvement in the camera technology towards resolving challenges of getting quality images. The knowledge on camera technology and its impact on image quality will step up the students to build new algorithms for getting quality images using latest camera technology features.

## **Keynotes from the address:**

Mr. Ramakrishna M, Asst. Professor-Senior Grade, IC&T. dept., MIT, Manipal, delivered a technical talk on “**Light Field Technology**” for 4<sup>th</sup> year CSE Students. In his talk, he enlightens the students on the basics of light and angle of view for camera technology and its impact on image quality. Speaker addressed about the challenges faced by existing camera technology and possible solutions using light field technology towards acquiring quality images. In the end, speaker also discussed about possible future work and challenging issues related to light field technology and suggested the students take up some of the challenges as their futuristic project work.



Mr. Ramakrishna M addressing the students



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## Department of Computer Science & Engineering

### Report on Workshop

**Title: Workshop on Image Processing using SciLab**

**Resource Person(s)/ Organization(s):**

Dr.Venugopal P S, Associate Professor, Dept of CSE, NMAMIT, Nitte.

**Educational Qualifications :**

- B.E KVG College of Engineering, Sullia
- M. Tech NITK, Surathkal
- Ph D VTU, Belagavi

**Experience :**

- Working at NMAMIT since 2002

**Areas of Interest :**

- Android Programming
- Image and Video processing
- Python
- Java programming
- Machine learning

**Conference/Journal publications :**

**National Conferences**

- Venugopala P. S, Dr. Sarojadevi H., Dr. Niranjana N C., Vani Bhat, Video Watermarking by Adjusting Pixel Values using Image Bit Planes, International Conference on Emerging Trends in Engineering. NMAMIT, Nitte, 15-16th May 2012.
- Venugopala P. S, Dr. Sarojadevi H., Dr. Niranjana N C., Vani Bhat, Invisible Image Watermarking Using Bit Substitution, International conference on Evolutionary trends in information technology, VTU, Belgaum, 5-6th October 2012.
- Venugopala P. S., Dr. Sarojadevi H., Dr. Niranjana N C., Savitha G., Object Detection and Extraction for Image Tagging on Android Platform, International Conference on Emerging Trends in Engineering – 2013 NMAMIT, Nitte, May 15th and 16th, 2013. PP 52-54. ISBN : 9789382880295



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**Date(s): 11 April 2019**

**Duration: One Day.**

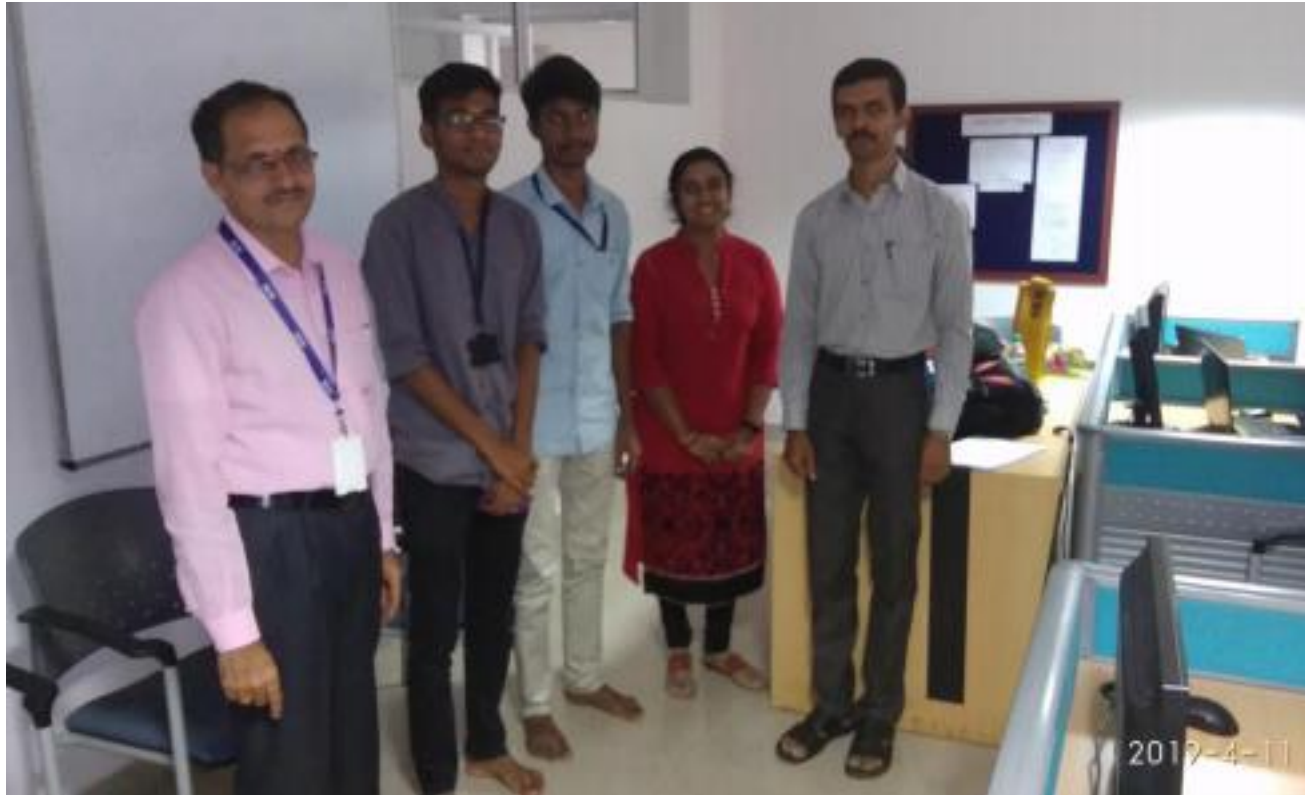
**Target Audience: Computer Science Students (3rd Year)**

## **Brief about the event:**

A One Day Workshop by Dr.Venugopal P S, Associate Professor, Dept of CSE, NMAMIT, Nitte has enlightened the students on the fundamentals of image processing. The widespread use of image processing for different applications poses the need of image processing knowledge for proposing novel image processing solutions. The acquired knowledge on image processing would help the students to resolve the challenges of the image processing domain and take up the image processing related projects.

## **Keynotes from the address:**

Dr.Venugopal P S, Associate Professor, Dept of CSE, NMAMIT, Nitte, delivered a one day workshop on **“Image processing using scilab”** for 3<sup>rd</sup> Year CSE Students. The workshop was conducted in two sessions. In the morning session, the speaker addressed the basics of image processing and scilab tool. In the afternoon Session, the speaker conducted practical hands-on sessions on different image processing operations using scilab tool and discussed possible forthcoming projects on image processing.



Dr. Venugopal Addressing students in the Lab



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Dr. Venugopal Conducting hands on session in the Laboratory