

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri - 574 225

## TECH-ILLUMINATO

*Engineer your Life..*

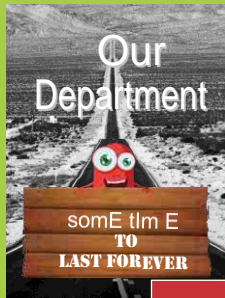
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INF  
SCI

DEPARTMENT OF INFORMATION  
SCIENCE & ENGINEERING

# HIGHLIGHTS



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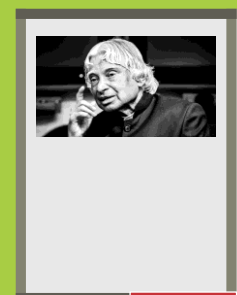
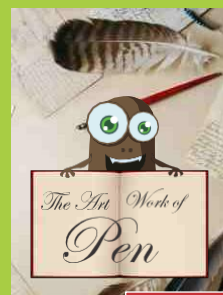
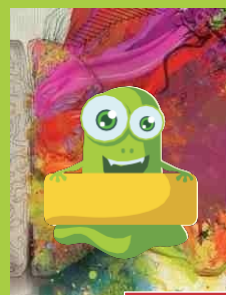
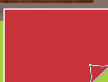
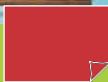
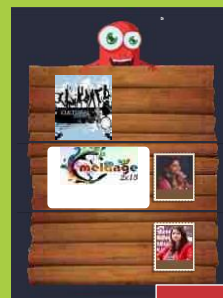
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15



19





OUR DEPARTMENT



SOME TIME  
TO  
LAST FOREVER

# Department of Information Science & Engineering

**B.E.**

**Intake: 60**

**Estd. 2008**

## **Vision of Department :**

To Impact quality learning and nature students to become successful technocrats by achieving excellence in information science and engineering field for addressing the evolving needs of the industry as well as the society.

## **Mission of Department :**

- ❖ To provide quality technical education and research training for preparing competent professionals in the Information technology field.
- ❖ To provide the suitable infrastructure and environment that inculcates best engineering practice for the Socio-economic development of the society.
- ❖ To foster the students to become successful technocrats to meet the global competency in the field of IT industry.
- ❖ To develop entrepreneurship skills with active research and innovation by inculcating ethical values among students.

## **Program Educational Objectives (PEOs):**

Graduates of the program will be able to,

- ❖ Apply the principles of fundamental mathematics and information Science & Engineering to provide solutions to the real time problems.
- ❖ Pursue higher education and engage in research to meet the challenges of the latest technologies.
- ❖ Design and develop reliable software systems to satisfy the industrial needs through multidisciplinary projects.
- ❖ Able to work in various IT related fields and contribute to the society.

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

- ❖ Apply the knowledge of computer networking, database and computations to provide the solutions to the real-world engineering problems.
- ❖ Design, develop, test and maintain the software systems that satisfy the needs of the IT industry.
- ❖ Develop programs and projects using modern software tools for industrial & scientific applications.





## **“Grant Sanction”**

**On behalf of AIET and Department of ISE and Students I would like to congratulate Dr. Roopalakshmi R Professor, Dept. of ISE for being selected her Project proposal with a grant sanction of Rs 5 Lakhs, under VGST, Government scheme for the academic year 2018-19. The title of project proposal is “Detection of Artificially Ripened fruits and Quantification of Hazardous Chemical Compounds using Spectrometric techniques”.**

**-HOD, ISE**



# TECHGEEKS

★ Department of ISE, AIET Moodbidri organized an Technical Talk on 24<sup>th</sup> of August 2018, “Operating Systems and its Applications” By Dr. Shashidhar G. Koolgudi Professor, Dept of CSE NITK, Surathkal.

★ Department of ISE, AIET Moodbidri organized an Technical Talk on 04<sup>th</sup> of September 2018, “Artificial Intelligence and machine Learning” By Mr. Raviraja Bhat, Senior Developer, Tech Mahindra, Bengaluru.

**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 software's called device drivers. Every hardware component has different drivers for Operating systems. These drivers make the communication successful between the other software's 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.



## **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.

# Technical Talk - 2





# TECHCRUNCH

★ Department of ISE AIET Moodbidri organized an intercollegiate technical events competition on 25<sup>th</sup> of September 2018, in association with the ISTE new Delhi Student chapter AIET, Moodbidri.





# TECHCRUNCH 2018 - 19







1. Department of ISE AIET Moodbidri organized an intercollegiate technical events competition on 25<sup>th</sup> of September 2018, in association with the ISTE New Delhi Student chapter AIET, Moodbidri.
2. The event was inaugurated by lighting the lamp by Mr. Vivek Alva, Dr. Peter Fenandes, Prof. Jayant Kumar Rathod, Prof. Sudarshana K, Prof. Divaya Ravi N ,Mr. Chandan Shastri and Ms. Deepashree.



3. We conducted Coding round, Group Discussion, IT Quiz and Presentation. More than 60 teams from various engineering colleges around Mangalore and Moodbidri have participated in the event.
4. **Mr. Vivek Alva**, Managing Trustee of AEF, Moodbidri addressed the gathering and suggested the importance of self learning and effective utilization of the various learning platforms for industry readiness to the gathers in his guest speech.
5. **Dr. Peter Fenandes** advised the students to convert the important four years of engineering life to build the professional life like a butterfly life stages in his presidential addressing.
6. The event was hosted by **Ms. Swarna Gowri** of 7<sup>th</sup> Semester ISE.
7. **Ms. Mythri K G** has proposed the Vote of thanks.
8. The whole set of events was well appreciated by the audience.





# WORKSHOP

★ Three days workshop on “Machine Learning” by Dr. Thyagraju G. S, Professor and Head, Department of CSE, SDMIT, Ujire was arranged from 10<sup>th</sup> September 2018 to 12<sup>th</sup> September 2018.



# **Report of Three days workshop**

**On**

**“Machine Learning”**

**By**

**Dr.Thyagraju G.S**  
**Professor and Head**  
**Dept of CSE**  
**SDMIT, Ujire**

The department of ISE organized three days workshop on “Machine Learning” from 10<sup>th</sup> September 2018 to 12<sup>th</sup> September 2018 which was delivered by **Dr.Thyagraju G.S**. The workshop was inaugurated by Head of the department Mr. Jayant Kumar A Rathod, workshop coordinator Mr. Manjunath H.R and other faculties.

In three days session, he spoke 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 is a branch in computer science that studies the design of algorithms that can learn.



This workshop covered the basic algorithm with hands on sessions that helps students to build and apply prediction functions with an emphasis on practical applications, basics and the fundamental concepts of Machine Learning such as:

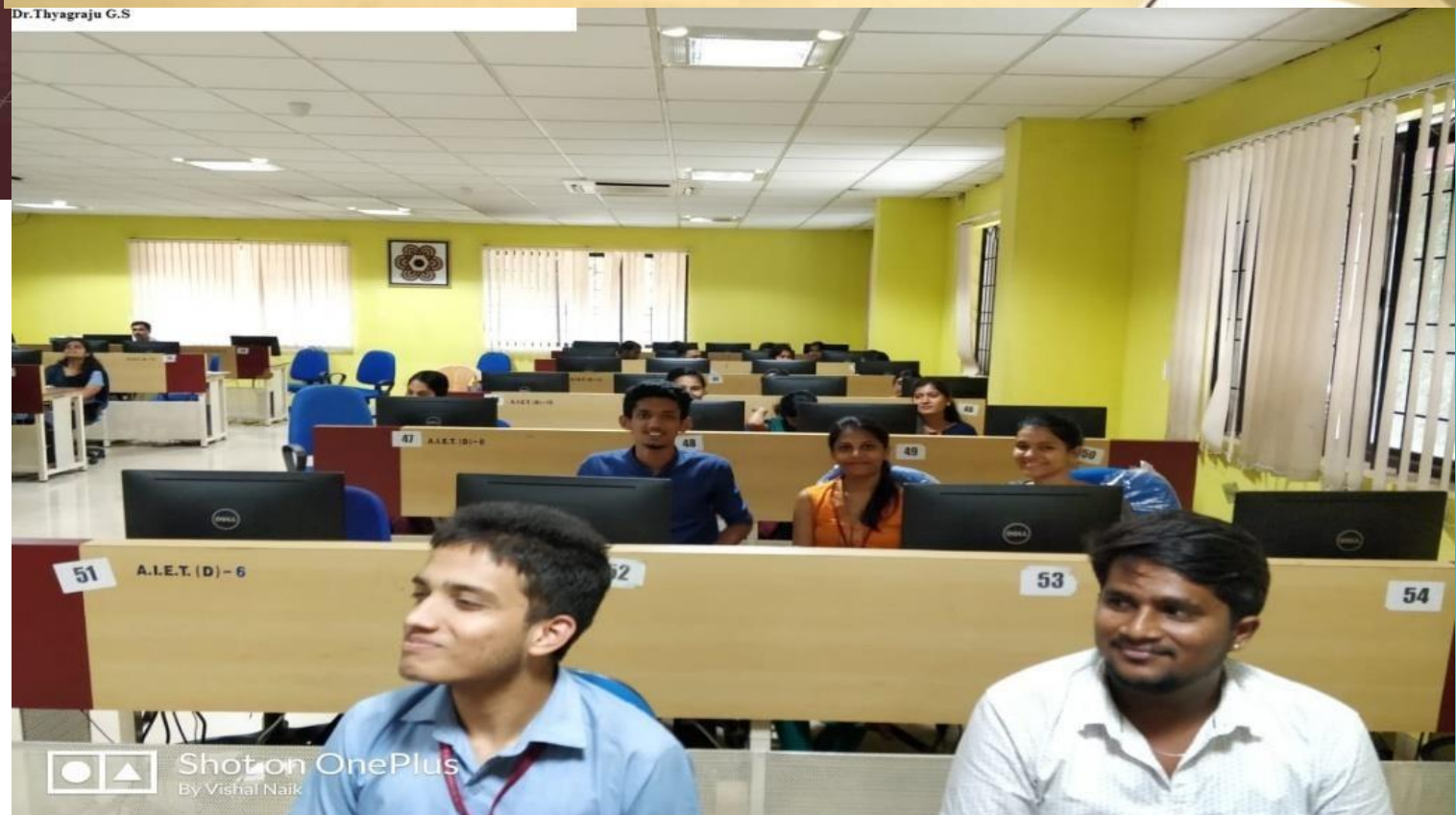
- Understand components of a machine learning algorithm.
- Apply machine learning tools to build and evaluate predictors.
- How machine learning uses computer algorithms to search for patterns in data
- How to use data patterns to make decisions and predictions with real-world examples
- How to prepare data, deal with missing data and create custom data analysis
- Basic and frequently used algorithmic solutions for different industries techniques including sorting, searching, greedy algorithms and dynamic programming

Finally on behalf of the Management, Principal, Staff and students, we would thank **Dr.Thyagraju G.S** for the presentation in the workshop.





Dr.Thyagraju G.S







# AIET ISTE Student chapter

Held on 27<sup>th</sup> September 2018

**Chief Guest**



**Dr. Sandeep J Nayak**  
Professor & Head,  
Department of Civil Engineering,  
Vivekananda College of Engineering & Technology,



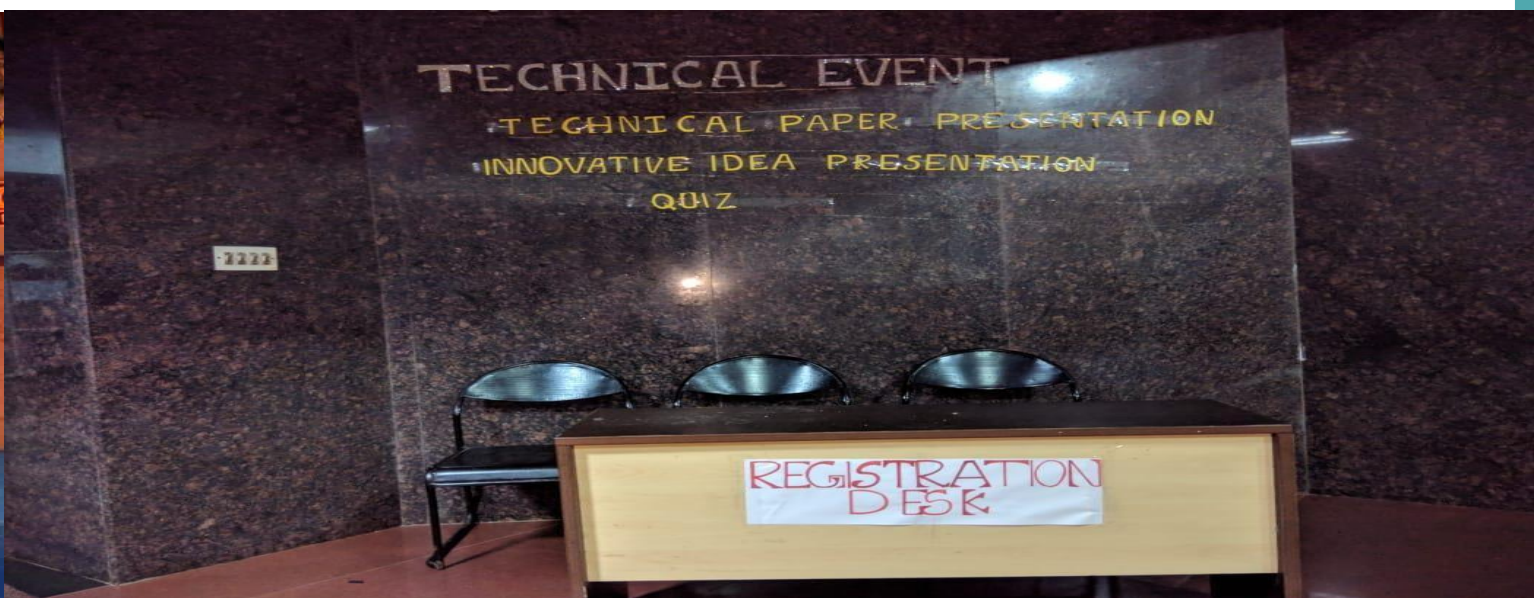
# AIET ISTE 2018 – 19



## Introduction

- ✓ Thousands of the people around the world were suffering from paralysis which is the harder condition to perform even most basic task
- ✓ The latest field of Brain gate technology helping them to regain their lost independence.
- ✓ It makes the quadriplegic man to control the system by computer trough his thoughts which considered as a scientific milestone.
- ✓ Brain gate tech of neural interface system is based on cyber kinetics, FPGA, signal amplification ,MEMS(chip) and algorithm as well emb systems.







1. The AIET Moodbidri organized an technical event AIET ISTE student chapter on **27<sup>th</sup> of September 2018**, in association with the ISTE New Delhi Student chapter AIET, Moodbidri.

2. The event was inaugurated by lighting the lamp by chief guest Dr. Sandeep J Nayak, Dr. Peter Fenandes president of AIET student chapter, Prof. Sudarshana K student chapter coordinator, Prof. G. B Vaggar faculty chapter coordinator, Mr. Vignesh Shetty student president and Ms. Rashmitha secretary.



3. We conducted three different technical events like **Technical paper presentation, IT Quiz and Innovative idea presentation**. More than 200 students were participated in the technical events.

4. **Dr. Peter Fenandes** , President of student chapter, addressed the gathering and advised the students to convert the important four years of engineering life to build the professional life like a butterfly life stages in his presidential addressing.

5. **Dr. Sandeep J Nayak**, Professor & Head, Department of Civil Engineering, VCET, Puttur. He suggested the importance of student chapter, technology and industry readiness to the gathers in his guest speech.

6. The event was hosted by **Ms. Trupti C** of 5<sup>th</sup> Semester ISE.

7. **Mr. Rakshith** has introduced the chief guest.

8. **Ms. Seemashori** has proposed the Vote of thanks.

9. The whole set of events was well appreciated by the audience.