MAHARAJA INSTITUTE OF TECHNOLOGY NYSO VOLUME 3 Bits&Bytes ISSUE 2 SEPTEMBER 2019 DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

VISION

"To be recognized as a premier technical and management institution promoting extensive education fostering research, innovation and entrepreneurial attitude"

MISSION

- To empower students with indispensable knowledge through dedicated teaching and collaborative learning.
- To advance extensive research in science, engineering and management disciplines.
- To facilitate entrepreneurial skills through effective institute-industry collaboration and interaction with alumni.
- To instill the need to uphold ethics in every aspect.

 To mould holistic individuals capable of contributing to the advancement of the society.

VISION

"To be a leading academic department offering computer science and engineering education, fulfilling industrial and societal needs effectively."

MISSION

- ♦ To enrich the technical knowledge of students in diversified areas of Computer Science and Engineering by adopting outcome based approaches.

 To empower students to be competent professionals maintaining ethicality.
 To facilitate the development of academia-industry collaboration.
 To create awareness of entrepreneurship opportunities.

THE EDITORIAL BOARD



THE PUBLISHER DR DEEPU R HEAD OF CS&E, MIT MYSORE



EDITOR-IN-CHIEF MR. ANANDA KUMAR H N ASST. PROF., DEPT. OF CS&E, MITM



EDITORS MR. PRASANNA G PATIL ASST. PROF., DEPT. OF CS&E, MITM



SASHIDHAR S. ASST. PROF., DEPT. OF CS&E, MITM

ANUSHAYG PAREEKSHITH 4MH16CS011 VII SEM, CSE



STUDENT EDITORIAL BOARD

USKATTI VII SEM, CSE



4MH16CS069 4MH16CS106 VII SEM, CSE



V SEM. CSE



4MH16CS042 VII SEM. CSE

INSC STUDENT PROJECT PROGRAMS-SPP AWARDS 2019 Students Project "EVADING SMOG USING MACHINE LEARNING" got selected for the INSC Student Project Program- SPP Awards 2019.



FIE MEMBERSHIP

Congratulations to Dr. Deepu R, for getting promoted to FIE (Fellow of Institution of Engineers) with member id F-125328-6.





DR. DEEPU R, APPRICIATION FOR TEN YEARS OF SERVICE @MITM (2019-09-05)





ENGINEERING FOR CHANGE BY MR BHASKAR KALALE AT INSTITUTION OF ENGINEERS. MYSORE (2019-09-11)



Dr. Deepu R, HoD, CS&E, MIT Mysore, attended the technical seminar on the theme "Engineering for Change" by Dr. Bhaskar Kalale.

Dr. Bhaskar Kalale is

- * Chairman, Confederation of Indian Industry(CII), Mysore Zone
- President & Head of India Operations, THEOREM Inc.
- Founder Charter Member of Indus Entrepreneur (TiE), Mysore Chapter

IEEE INAUGURATION (2019-02-21)

IEEE, a student chapter inaugurated on 21th Feb 2019 of the academic year 2018-19 from the Computer Science and Engineering Department, MIT Mysore at the college Auditorium from 1:00PM to 3:30 PM.

Our beloved Principal Dr. B. G. Naresh Kumar and the President Dr. S. Murali were invited and other dignitaries present were Dr. Deepu R, HOD, Computer Science and Engineering Department, Dr. Mahesh Rao, HOD, Electronics & communication department and Dr. C Ramakrishnegowda, HOD, Civil Department. All the students and faculties of CS & E were part of this event.



The function commenced with an invocation song. This was followed by inaugurating the event by "Watering the Plants" by the dignitaries.

The chief guests of the day, Mr. N. M. Prathap and Mr. Pradeep Kumar M, were welcomed. Introductory speech of the Guests was given and this was followed by felicitating the Guest of Honour.

After this, Dr. Deepu sir and Ramakrishnegowda sir spoke few words by addressing the gathering.







Then speech by the guest of honour i.e., life story of the chief guests who succeeded after lot of failures and his speech taught us that we should never give up. His speech was really inspirational which inspired everyone who were present in the event. There was a small session where the student got the chance to ask few questions for Mr. Prathap, there was an active participation from the students. The inauguration function concluded with a valedictory speech.

MORPHOLOGICAL MODELS IN IMAGE ANALYSIS AND RECOGNITION (2019-03-26)



Our department invited Dr. LEONID MESTETSKIY, Professor of Information Technologies, Member of Russian Academy of Natural Sciences, Lomonosov Moscow State University, to our department as a guest speaker on March 26, 2019 to share his knowledge on "MORPHOLOGICAL MODELS IN IMAGE ANALYSIS AND RECOGNITION" and provide guidance to our students.

OBJECTIVES:



[i] To make students know about the Morphological Models in Image Analysis and

[ii] To make students aware about the Problems of shape recognition and how to build the boundary of an object.

OUTCOMES: Understanding the problems related to:

[i]Different shapes [ii]Problems of shape recognition [iii]Prairie fire [iv]Medial representation of an shape [v]Tracing the object's boundary points [vi]Problems on building the boundary of an object

CARIER OPPURTUNITIES AFTER B.E THROUGH GATE EXAM (2019-03-28)

Our department invited G PRAKASH CHAKRAVARTHY, GATE Faculty, Banglore as a guest speaker on March 28, 2019 to share his knowledge on "Carrier Oppurtunities after B.E through GATE Exam" and provide guidance to our

OBJECTIVES: [i] To make students know about the current IT job opportunities.

[ii] To make students aware about the Campus recruitment test.

OUTCOMES: [i] Realizing how difficult it is now to get a job.

[ii] To understand what students study in their academics and what the employer is demanding students to know.

[iii] Enhancing student's productivity.

[iv] Created awareness about the current reality of IT jobs.





ETHICAL HACKING WORKSHOP (2019-03-27)

Our department invited KARTHIK G, DIRECTOR AND FOUNDER, VSG SOFTWARE SOLUTIONS, MYSORE, as a guest speaker on March 28, 2019 to share his knowledge on "NETWORK SECURITY AND CRYPTOGRAPHY".

OBJECTIVES:

[i] To understand Hacking, Cyber Security Basics, Attacks.

[ii] To understand jobs and techniques of an Ethical Hacker.

[iii] To understand Virus, Worms and Trojans.

[iv] To learn about Stenography Technique, Phishing,

[v] Basics of Kali Linux and Basics of Intrusion Detection

OUTCOMES:

[i]Learning about Jobs of an ethical hacker.

[ii]Using S-Tools to perform steganography.

[iii]Creating a .bat virus, worms.

[iv]Given a demo on Kali Linux.

[iv]Medial representation of an shape

[v]Tracing the object's boundary points



OFFICIAL INAUGURATION OF IEI STUDENT CHAPTER (2019-04-11)









- * The inauguration of Institution of Engineers (India) Student chapter was held on 11th April 2019 at 2:00 pm, Commenced with the lighting of lamp by a group of dignitaries.
- * ER. A. S. Sathish, President-Mysore Chamber of Commerce and Industry and ER D.K Dinesh Kumar, Hon. Secretary -Institution of Engineers (India), Mysore Local Centre inaugurated the event.
- * The welcome address and the introduction of the chief guests were given by Prof. Sushma Koushik N., Mr. Sathish, President-Mysore chamber of commerce and industry, delivered the inaugural address and explained briefly about the IEI student chapter and ER Dinesh kumar, Hon.Secretary-Institution of Engineers (India), Mysore local centre delivered the presidential address and explained the activities taking place in Institution of Engineers, both of them motivated the students to actively involve and participate in the forthcoming activities.
- * The program was presided by: Dr. Deepu R (HOD in CSE, MITM) who explained about various activities of IEI, Dr. BG Naresh Kumar (Principal, MITM) and Dr. Murali S (President, MET Mysore) also explained about the importance of joining these associations. At the end Ms. Ashitha S. thanked the gathering for gracing the occasion by their solemn presence.

TALK ON ERP (2019-04-12)



We invited Mr. R KESHAVAMURTHY, CEO & FOUNDER, K2V INFOTECH LLP, MYSURU, as a guest speaker on April 12, 2019 to share his knowledge on "ORACLE ERP" and provide guidance to the students, who are seeking a bright career ahead.

OBJECTIVES: [i] To revolve around ERP systems and its advantages compared to traditional methods, and employment opportunities involved in this domain.

[ii]To mention real time scenario of ERP system.

[iii] To help mapping the concepts to real world application.

OUTCOME: Shedding light on ERP platform and the corresponding employment opportunities in it.

MAHADASARA (2019 - MARCH)

ETHNIC DAY





FAREWELL - 2019-06-07

A memorable farewell was given to the students of 2015–19 batch by their juniors and staffs of the department on 7th June, 2019 @Regenta Central Herald. The outgoing batch shared their experiences during the journey of engineering and gave valuable suggestions to their junior batches. They involved in many activities organized.



GROUP PHOTO - 2015 BATCH



IISC BANGLORE VISIT (2019-04-23)

Our department has organized one day visit to "Open day" festival held by Indian Institute of Science (IISC) Bangalore 23rd of March 2019 for IEEE members of Computer Science & Engineering students.

On that day, students, science and technology enthusiast, and the public had an opportunity to visit the institution and go around the campus to explore the existing science and technology initiatives and activities of the institution.





After reaching the campus, students were allowed to visit the department of their interest to see the projects done by students of IISC.

The institution is spread over 400 acres of land. We were given chance to explore the science and technology initiatives and that are taking place in current era. IISc houses more than 40 departments, out of which we visited CDS (Computational and Data Sciences). The students got benefit in terms of the technical details provided by the models and projects on evolution of computer hardware components like OMR scanner, printer, monitors, and optical fibers and so on.

From this visit students experienced the evolution of computer hardware components, flood filling algorithm, Trojan horse, cyber security as well as the super computer technology which are million times faster than the desktop. They also observed the projects and posters related to cyber security awareness like identity theft, password security tips, awareness towards fake job messages, and online gaming safety for children and so on.

The main objective of this visit was to expose towards the recent technology and also to the huge competition outside. This visit will help students in their future practical life and bring a positive change in their thinking and practical behavior regarding Education and specially Engineering.

INFOSYS CAMPUS VISIT (2019-04-27)

We organised an industrial visit to Infosys, Mysore Campus, on 27th April 2019 from 10:00 AM to 1:15 PM. A total of 60 students from 3rd year Engg who are members of IEEE chapter were accompanied by 5 faculties of CSE. This visit was organised to know about IT Industry, its Operations & Services that are rendered from MNCs.

Students were accompanied by Mr. Saravana and Mr. Goutham, Engineer, Infosys. and were taken around the campus which was around 357 acres.

The Engineers gave a brief about the campus. It has:

- » 6 SDB [Software Development Block]
- » 8 FC [Food Courts]
- » SEZ [Social economic zone]
- » 2 GEC [Global education centre]
- » Amphitheatre
- » 8 Athletic ground
- » Multiplex
- » Recreation centre
- » Rain water harvesting lakes
- » Accommodation for trainee
- » Guest house
- » ILI [Infosys Leadership Institution]



PAPER PRESENTATION (3RD NATIONAL CONFERENCE, GSSS - 2019-04-23)

Mukul N Babel, Chandana V, Devika and Digvijay, presented their paper on "Evading Smog using Machine Learning" during 3rd National Conference held at GSSS on 23rd April 2019.



BEST PROJECT OF THE YEAR (2019-05)



The following projects have been selected for Best Project Award for First and Second place. The decision was taken based on the feedback of Judges, Evaluators and visitors. Selected batches will be honored with a cash price and certificate.

An Indian
- ST -

1 Maked N Babel	45001503049
2.Devika S	450019139125
3 Chiedres V	4MITEC18023
4 Digripay D. Govela	4MH1909027

Please

Fire Place

1.BlovesiDS	4MH3CSTH
2.Nordhalf	4MH:5CS316
Зазниць У	45(HISC5(II)
4. Julia Fallin	AMERICAN

FACULTY PUBLICATIONS:

- 1. Murali S. "Video Forgery Detection Using Motion Extractor by Referring Block Matching Algorithm", International Journal of Science and Technology Research (IJSTR) Volume-8, Issue 10, Oct 2019.
- 2. Shobha B S, Deepu R, "A Review on Video Based Vehicle Detection, Recognition and Tracking" 3rd IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions.
- 3. "Handwriting Analysis Through Graphology: A Review", Deepu R, Lakshmi Durga, International Conference on Advance Communications and informatics (ICACO) IEEE Conf. 2018.
- 4. Prasanna G Patil, "Evading Smog using Machine Learning", International Journal Of Research In Electronics And Computer Engineering, Ijrece Vol. 7 Issue 2 (April- June 2019) Issn: 2393-9028 (Print) | Issn: 2348-2281 (Online).

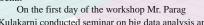
LIST OF MOU'S

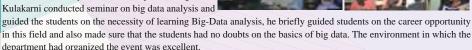


- 1. Fiabilite Network Solutions Private Limited, Bengaluru
- 2. Hebbale Labs Pvt. Ltd., Bangalore
- 3. K2V Infotech LLP, 1691, E &F Block, Ramakrishnanagar, Mysore 570022
- 4. K2V Technologies, Mysore (referred as VSG)
- 5. Softronic Labs, Mysore
- 6. RunShaw, Mandya
- 7. ATEU Softwares, Mysore

TECHNICAL WORKSHOP ON BIG DATA ANALYSIS AND IOT (2019-04-08)

The department of Computer Science, MITM organized a five day technical workshop on "Big-Data" analysis and IoT. The resource persons were Mr. Parag Kulkarni, Mr. Ashish form Geeks Lab, Delhi.









On the second day the process of installing hadoop and setting up the big data environment took place. Finally everybody were set up with the hadoop environment. The session on big-data analysis of the five day workshop was concluded on the second day.

On the third day it was the time for IoT seminar, the resource person Mr. Ashish, started the day with the seminar introducing us to the basic introduction of Internet Of Things(IoT). After having spent brief time in theory part, then he distributed Arduino Uno among group of students. Then they taught every one with the basic programs of LED lights, Buzzers etc. After getting to know about the programs all the students started to implement the programs and link it to the arduino uno.

Finally the students were given a chance to learn about Raspberry Pi and even implement programs on it. This ended a successful five day workshop.

FINAL YEAR PROJECT POSTER PRESENTATION (2019-05-17)

The department of Computer Science had conducted a 2 day final year project poster presentation on 11th and 12th February 2019. The poster presentation was held in the afternoon sessions. The final year students demonstrated their projects on computer science domains through technical posters. The main audience was the pre final year students i.e. the 6th and 4th semester students, and this was because to gain knowledge and have an idea about how the theoretical aspects of computer science can be bought to practical use.





On the first day of the poster presentation there was a storm of spectators to view the posters of the final year students. There were students near each table curiously listening to the explanations that was provided by the seniors. Apart from just listening to the explanations there was a constant questioning between the spectators and the seniors to clarify all the doubts and to gain a more detailed view on how things work, especially the algorithms incorporated in the projects. The two days of the poster presentation was so successful and helpful sessions for everyone.

Finally two best projects were selected based on the review and feedback of the sixth semester students, judges and evaluators.









IEEE - TECH DAY - 2 (2019-08-24)

IEEE MITM Student chapter hosted IEEE Tech Day-2 wit the support of Banglore section in our college on 24th of August 2019. The attendees were IEEE members of all colleges of Mysore region. It followed by Branch Councillor's (BC) Meet with 50 different college's representatives of student chapter across Karnataka.











BUG BATTLE (2019-08-29)

We invited Mr. Padumna, CEO, ATEU Softwares, Mysuru, to conduct an event "BUG BATTLE" under the Institution of Engineers Student Chapter. The event started with introducing to- Bug and Debugging. It was mainly to find the Bugs and identify its behaviour with respect to various versions of Android OS. Finally we distributed the Internship certificates to the qualified students during Summer Internship program by ATEU Softwares.















INFOSYS MAKERS SPACE, MYSORE(2019-09-08)



Infosys "Maker's Space" event's 2nd runner-up team won by MITM Students, out of 32 teams participated.

Team included Shivashankar, Bharath S and Snehil Das from final year students of CSE, MITM.





INTRODUCTORY DATA SCIENCE AND MACHINE LEARNING (2019-09-26)



Members of IEEE Student Chapter of the department, Pareekshith US Katti and N Nithin Srivatsav conducted a workshop on 'Introductory Data Science and Machine Learning' on 21st March 2019.

Students were given an introduction to Data Science, General tasks in data science and data science tools.

Students were also made to know what machine learning is, supervised, unsupervised and reinforcement learning, machine learning tasks and algorithms such as K-Nearest Neighbors, Decision Trees and Linear Regression.

This was followed up with an introduction to python data science libraries with briefing about essential functions of NumPy, Scikit-Learn, Pandas, Matplotlib and Seaborn.

A machine learning program was demonstrated which performed exploratory analysis, visualization and applying classification algorithms such as KNN and Decision Trees to Iris Dataset.

In the hands-on session, after a brief recap, the student chapter members got their first experience of writing a Machine Learning python script to classify Fruits based on their features using KNN and Decision Trees. They were also made to build a linear regression model and evaluate its accuracy.

ENGINEERS DAY CULTURAL MEET AT IEI MYSORE (2019-09-08)

Engineers day cultural meet was conducted by Institution of Engineers (India), Mysore local chapter in its premises on 8th September 2019. Various cultural events have been organized and all were beautifully anchored by Prof. Sowmyashree P, MIT Mysore.







INDUCTION PROGRAM BY ER ARUNA DEVI, CHAIRPERSON, CSI-MC (08-18-2019)

We invited Er. Aruna Devi, Chairperson, CSI-MC, for induction program talk on Introduction to Computer Science and Engineering Discipline. She delivered and inspired the 1st year students of MITM and briefed about various domains of engineering and their applications.



IE HUSSAN VISIT (2019-07-06)



Members of "Institution of Engineers (India)" Mysore local chapter gave a proposal to upgrade Hassan Panchayath as Hassan City Corporation to Government of Karnataka. Here, we can witness the participation of our head of the department, Dr. Deepu R, with other members of IEI Mysore.

JUMPSTART PYTHON WORKSHOP (2019-09-26 & 27)

"JumpStart Python" was 2 days beginners' workshop on python for the students of 3rd semester. It was organized under Institution of Engineers student chapter, Mysore, by the faculties, Prof. Prasanna G Patil and Prof. Ananda Kumar H N, as the resource persons for the entire 2 days' workshop.

Workshop covered basics of python, from variables till loops, and Data Structures of python. After the workshop students were able to complete the courses on Python and got certified through **Google Cloud - Coursera** certification online learning website.









INTRODUCTION TO MACHINE LEARNING BY PAREEKSHITH KATTI AND N NITHIN SRIVATSAV, IE STUDENT CHAPTER, MIT MYSORE (2019-09-26)

This event has been organized under Institution of Engineers Student Chapter, MITM, to motivate the students of lower semesters about Machine Learning.







OPEN AIR TALK ON AI, ML BY PAREEKSHIT KATTI AND N NITHIN SRIVATSAV (2019-09-30)







HACKATHON (2019-10-04)







AYUDHA POOJA- DECORATION OF DEPARTMENT (2019-10-07)



MISSION MANGAL - A MOTIVATIONAL MOVIE ON ENGINEERS DAY (2019-09-15)





COMPUTER NETWORK PROTOCOLS AND THEIR APPLICATIONS BY MR. GURURAJ H L (2019-09-20)

Our department invited Mr. Gururaj H L, as a guest speaker on Sep 20, 2019 to share his knowledge by conducting a workshop on "COMPUTER NETWORK PROTOCOLS AND ITS APPLICATIONS".

OBJECTIVES:

[i]To understand Network layers and its working.

[ii]To demonstrate Application layer protocols.

- [iii] To discuss Transport layer services and understand UDP and TCP protocols.
- [iv] To explain Routers, IP and Routing Algorithms in Network Layer.





WEB DEVELOPMENT WORKSHOP, 10-15TH JULY, 2019

In association with Institution of Enginners (India) Mysore Local Chapter, our department organized 5 days' workshop on "Web Development" during 10 – 15th July 2019. The resource persons Mr. Mukul N Babel (L&T Infotech), Ms. Supritha F(Congnizant) and Ms. Chandana V(Congnizant), delivered knowledgeable contents of Web Development, namely HTML, CSS, PHP, Javascript and WordPress, to all student members of IEI MIT Mysore Chapter.









IBM WEBINAR ON HOW TO BUILD AN AI-FIRST INSTITUTION

IBM Webinar to find how to Build an AI - First Institution was scheduled on 6th August, at 03:00 PM IST at ParamLab for faculties as well as 7th sem students to know the insights of it.





INAUGURATION OF DASARA KAVI GOSTI (2019-10-02)

Mr. Shreeharsha M R performing kannada light music songs at "PanchaKavigoshthi" event @Jaganmohan Palace, during Dasara 2019.

Mr. ShreeHarsha being felicitated by MP Smt. Sumalatha Ambareesh during HarshaDhwani Live in Concert @Srirangapatna Dasara celebrations 2019





KABADDI



Winners of VTU Mysore Zonal Level Kabaddi match. Team lead: Ventak Prasant 6th Sem, USN: 4MH16CS133



STUDENTS ACTIVITIES

Sushma R 7th Sem 4MH16CS105



















STUDY JAM- MACHINE LEARNING CERTIFICATION BY GOOGLE CLOUD THROUGH COURSERA (2019-10-08) Students of 7th Semester went through "Study Jam - Online Certification on

ML" by Google Cloud though COURSERA @ Paramlab, MITM.





PROGRAMMER'S CLUB (2019-08)

1. Technical Quiz (1-8-2019: 2:10 to 4:00)

Objective of event: To create the awareness and effectiveness of Technical Aptitude in Java Programming.

Outcomes of event: The participants have started to work in a team, which will lead them for effective team discussion and group discussion.

Sharing of Information and Idea's has been observed flowing in and out between the Team Members.







2. M C Q - 1 (8-8-2019: 2:10 to 4:00)

Objective of event: To explore the hidden logic of C Programming syntax.

Outcomes of event: The participants can scale them in the programming skill.

The Participants were exposed to facts and hidden concepts of few important C programming syntax.







3. Lost in The Puzzle (29-8-2019: 2:10 to 4:00)

Objective of event: To trigger the logical thinking with known facts and hidden logics.

Outcomes of event: The participants will be able to test their logical thinking skills.

The Participants were exposed to different kinds of puzzle and which can be related to computer science.





PLACEMENTS







TEACHING STAFF (2019-20)









Dr. Murali S Dr. Lokesh M R













Nandakumar Honnaraju B Shobha B S







Koushik N





Ravishankar

Ananda

Kumar H N

Shashidhar Divya H N

S



Archan M N

Ganesh K

Sindhu

2. Members from Industry: • Mr. Suryanarayana Chandrasekhar

• Prof. Nandakumar R B Asst. Professor Prof. Shobha B S

DEPARTMENT ADVISORY COMMITTE

Talent Transform Wipro Limited, Bengaluru.

• Mr. Sathish Excelsoft Mysuru

1. Staff Members: • Dr. Deepu R

HOD, CS&E

Asst. Professor • Prof. Hemanth S R Asst. Professor

 Mr. Vijayanand Gurudev Director, Meclink, Bangalore Founder & CEO Arts of Mysore

• Mrs. Nayana Ramakanth TCS, Bengaluru .

• Ms. Preethi Shekar S AI Researcher and former D.S.E Microsoft India R&D Founder and CEO, Mieffcci, Bengaluru

• Mr. Tejas CSIR-CFTRI, Mysuru

3. Members from Institution:

• Dr. Geetha Kiran A Professor Malnad College of Engineering, Hassan

EVEN SEMESTER TOPPERS - 2018 4TH SEMESTER

Bharath

Kumar R



Kruthika

KavyaPriya





4MH17CS019 655/800

Shreeharsha

Shree P





Bhavya

ΜŔ





650/800 81,25%



4. Members from Alumnae: Ms. Chandana M N

Mr. Mohammed Maaz

• Mr. Hemanth Kumar G

5. Parent Member:

Mrs. Roopa PrasadMr. H B Ramakrishna

8TH SEMESTER







PAREEKSHITH ANUSHAYG 619/800 77.38% RANK 2



4MH17CS014 651/800

6TH SEMESTER



VARSHINI B C H A N D A N A
4MH 16CS110 SAMRATINI M
606/800 4MH 16CS104
75.75% 612/800
RANK 3 76.50% 634/800 79.25% RANK 5



HARSHITA R 4MH 15CS034 628/700 89.71% RANK 1







SHREYAS P 4MH15CS086



Designed By: **BINIT MISHRA**