

**ZERONE**  
**STUDENT ASSOCIATION**



**ANNUAL REPORT**  
**Academic Year 2022-23**

**Office Bearers of ZERONE Association for the Year 2022-23**

<b>Designation</b>	<b>Name</b>	<b>Year</b>
Faculty Coordinator	Dr. Sreeja Rajesh, Associate Professor	
President	Mr. Rohith	IV Year
Vice-President	Mr. Varun Raj	III Year
Secretary	Mr. Jithesh	IV Year
Joint Secretary	Ms. Daxia Vlora Dmello	II Year
Treasurer	Ms. Sweekrithi Shetty	IV Year
Technical Head	Mr. Saadhan Ballal Mr. Yogeesh M	IV Year IV Year
Cultural Coordinator	Ms. Lavanya	IV Year
Co- Cultural Coordinator	Ms. Swathi K L	III Year
Sports Coordinator	Mr. Mohammed Sheik Sauban	IV Year
Placement Coordinator	Ms. Akshatha	IV Year
Magazine Coordinator	Mr. Sourabh Shetty	IV Year
AICTE Coordinator	Mr. Adarsh	IV Year

**Department of Information Science & Engineering**

**Association Activities 22-23**

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Sl No	Activities	Resource Person	Date
1	Workshop on 'Web Development using Salesforce'	Mr Shravan Kini, Full Stack Software Engineer and Aniruddha Bairi, Sr. Software Engineer, Iron Systems, Inc., Bangalore.	10/12/2022
2	Three Days Workshop on 'Application Development Using Java'	Mr. Razak Mohamed S, Bangalore	23/01/2023 to 25/01/2023
3	Talk on 'Innovation, Career and Research Mind'	Dr. Somashekara Bhat, Joint Director, Manipal	19/04/2023
4	Three Days Workshop on 'The Use of Open Sources in Recent Technologies'	Dr. Narendra V G, Associate Professor, MIT, Dr. Ahammed Shafeeq B M, Assistant Professor, MIT, Dr. Mohith P Tahiliani, Assistant Professor, NITK, Surathkal	27/04/2023 to 29/04/2023
5	A Technical talk on 'Research Publications'	Dr. Sreeja Rajesh, Associate Professor, MITE, Ms Divyashree S, Assistant Professor, MITE	02/05/2023 to 03/05/2023
6	Workshop 'MATLAB TECH DAY'	Mr. Rakshith B S, Senior Application Engineer, CoreEL Technologies, Bangalore	14-06-2023
7	A Technical talk on 'Enhancing Soft Skills and Technical Skills'	Mr. Nishchith, Software Developer, Tieto Evry, Bangalore	05/08/2023
8	A Technical talk on 'Web Development with React JS'	Mr. Roshan Shetty, Software Developer, NTT Data, Bangalore	05/08/2023

## Two Days workshop on “Web Development using Salesforce”

**Date: 9<sup>th</sup> December 2022 to 10<sup>th</sup> December 2022**

A two days’ workshop on ‘Web Development using Salesforce’ was conducted on 10<sup>th</sup> December 2022 for the III Year Information Science and Engineering Students. The Session was initiated with a presentation on Introduction to Salesforce and its usage. The resource persons for the event were Shравan Kini, Full Stack Software Engineer - Iron Systems, Inc., Bangalore and Aniruddha Bairi, Sr. Software Engineer - Iron Systems, Inc., Bangalore., Alumni Batch 2015-19.

Salesforce is the world’s leader in the cloud services industry that specializes in CRM. It is a SaaS (Software as a Service) company, which hosts the applications on its servers and makes them available to clients over the Internet from any device. The provider offers various products for users and developers to build and distribute custom software via a subscription model.

The major benefits of building branded sites and web apps on Salesforce is

- The versatility of options and opportunities
- Development without Code



*Fig 1. Hands-on Tool usage of Salesforce by Mr. Shравan Kini and Mr. Aniruddha Bairi*




*Fig 2. Doubt clearing Session by the Resource Person*



*Fig 3. Hands-on Tool usage of by Participants of the workshop*


### Three Days workshop on “Application Development using Java”

**Date: 23<sup>rd</sup> January 2023 to 25<sup>th</sup> January 2023**




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A unit of Rajalaxmi Education Trust®, Mangalore  
Badaga Mijar Moodabidri, DK Dist, Karnataka - 574225

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**Department of Information Science and Engineering**

**Organizes  
Workshop on**



**Application Development using Java**

**by**

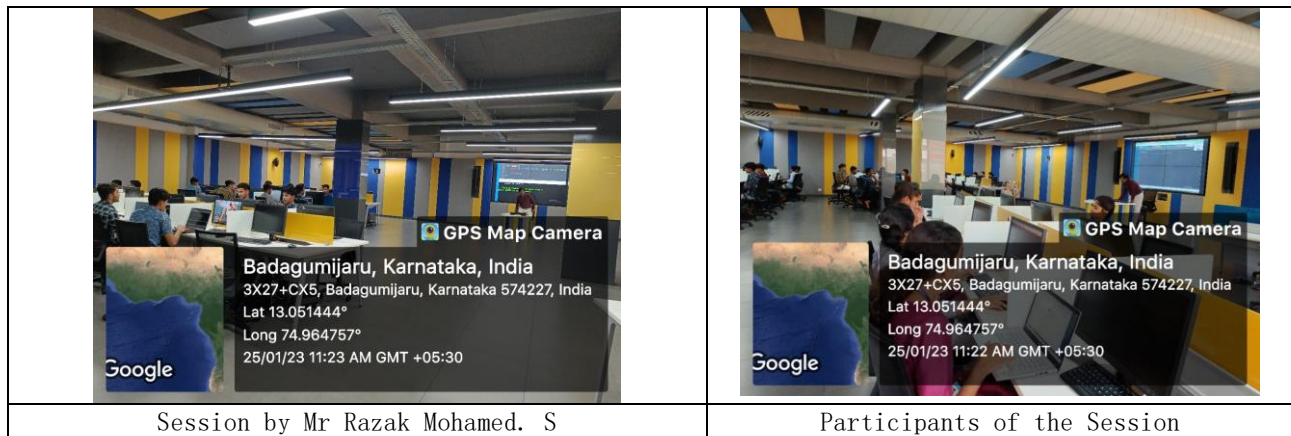
**RAZAK MOHAMED.S**

**DLithe**  
*Be Agile. Be in Demand*

23<sup>rd</sup> to 25<sup>th</sup> January 2023      Venue: Innovation Center

A Three Days Hands on Workshop was Organized by the Department of Information Science & Engineering on “Application Development Using Java” from 23<sup>rd</sup> of January 2023 to 25<sup>th</sup> of January 2023 in Innovation Center for the II year Students of the department. The resource person Mr. Razak Mohamed. S is a Full Stack Trainer at DLithe Consultancy Pvt Ltd. Has over 8+ years of experience in developing, training on JAVA, Javascript, Python skillsets. He has led 100+ projects including all JAVA, Android and MS.Net technologies. He Works as Freelancer for Institutional, Corporate trainer in different technologies such as JAVA, MS.Net, Python, PHP, Javascript. He has Proficient skills in Android App Development, JavaEE, MVC, Spring and Hibernate and has also worked with Visual Studio Code, Android Studio, Eclipse and built Android apps which comprises the web communication.

Mr Razak Mohamed. S gave an overview of Java Web development, front end and implementation. The students were introduced to JSP, HTML, CSS etc. They were also introduced to back end servlets, database connectivity with back end and integration of front end part with business layer and database. Discussion and Scopes of full stack were also discussed.



**Talk on 'Innovation, Career and Research Mind'**  
by **Dr. Somashekara Bhat**  
**Joint Director, Manipal Academy of Higher Education**

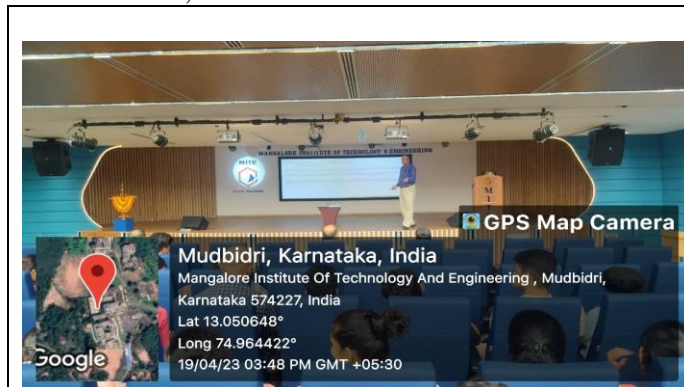
**Date: 19<sup>th</sup> April 2023**



The Department of Computer Science & Engineering and Department of Information Science & Engineering jointly organized a talk **“Innovation, Career and Research Mind”** on 19<sup>th</sup> April 2023 at 2:30pm in Auditorium-4, MITE. The resource person for the event was Dr. Somashekara Bhat, Joint Director, MIT. The organizers of the event were Dr. Shree Kumar, Dept. CS&E and Dr. Sreeja Rajesh, Dept. IS&E.

Dr. Somashekara Bhat, the Joint Director at Manipal Academy of Higher Education. Dr. Bhat has guided research scholars and numerous Undergraduate and Post Graduate students in their project work. With financial aid from National Programme on Micro and Smart Materials and Systems, he was instrumental in setting up National MEMS Design Center in the ECE department. He has more than 25 Journal publications and 40 plus conference publications. 3 Indian patents are filed with him as a co-inventor. He is serving as a reviewer for the Journal of Micro/Nanolithography, MEMS, and MOEMS. He has delivered Keynote Addresses, Invited Talks, and Guest Lectures at various National and International Conferences. He served the society during the Gujarat Earthquake in 2001, to set up radio communication between various relief centers. He and his friends in the MARC regularly support the NDRF team in their mock drills in disaster management, they initiated the early proposal to set up a Community FM Radio Station in Manipal.

Dr. Somashekar Bhat began his session by giving the young generation the need to be equipped with skill sets to face the demands in the market. He also gave real-time examples to demonstrate how adapting to the changing technological demands enhances the business and career development of an individual. Without updating yourself with new technology will retard one’s career growth. The students of 6<sup>th</sup> semester Computer Science & Engineering, Information Science & Engineering and Artificial Intelligence & Machine Learning attended the session and gained an insight on Innovation, Career and Research. The students found the session informative and enlightening.



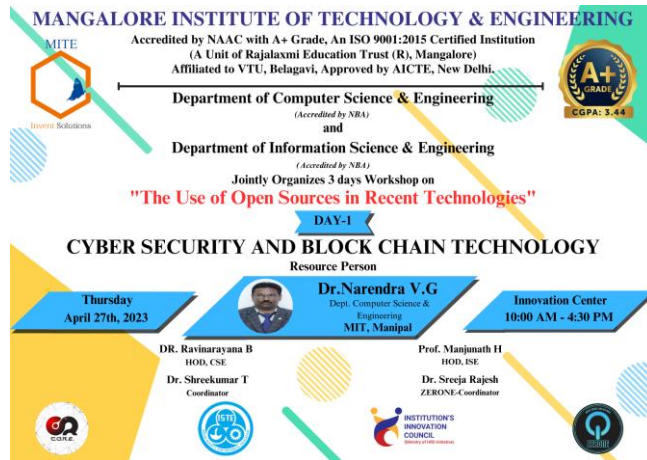
Talk by Dr. Somashekara Bhat, Joint Director, MIT



Participants of the Session

## Three Days workshop on “The Use of Open Sources in Recent Technologies”

**Date: 27<sup>th</sup> April 2023 to 29<sup>th</sup> April 2023**



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Department of Computer Science & Engineering  
(Accredited by NBA)

and

Department of Information Science & Engineering  
(Accredited by NBA)

Jointly Organizes 3 days Workshop on  
**"The Use of Open Sources in Recent Technologies"**

**DAY-1**  
**CYBER SECURITY AND BLOCK CHAIN TECHNOLOGY**  
Resource Person

**Thursday**  
April 27th, 2023

**Dr. Narendra V.G**  
Dept. Computer Science & Engineering  
MIT, Manipal

**Innovation Center**  
10:00 AM - 4:30 PM

DR. Ravinarayana B  
HOOD, CSE  
Dr. Shree Kumar T  
Coordinator

Prof. Manjunath H  
HOOD, ISE  
Dr. Sreeja Rajesh  
ZERONE-Coordinator

The Department of Computer Science & Engineering and Department of Information Science & Engineering jointly organized 3 days workshop on “The Use of Open Sources in Recent Technologies” from 27-04-2023 to 29-04-2023 in Innovation Centre, MITE. The organizers of the event were Dr. Shree Kumar, Dept. CS&E and Dr. Sreeja Rajesh, Dept. IS&E.

Day1 session was about Cyber Security and Blockchain Technology handled by Dr. Narendra V.G, the Associate Professor-senior scale, department of Computer Science and Engineering at Manipal Institute of Technology, Manipal. He has 23years experience in profession and his research interests include Image Processing and Computer Vision, Natural Language Processing, Machine Learning, Deep Learning, Soft Computing Techniques. Dr. Narendra V.G briefed about how cyber security works and what are the problems India is facing due to hacking. He showed videos of major hacking that took place in different countries. After that session was carried by Manoj. He gave an amazing talk about block chain technology, cryptocurrency, and how government can implement block chain technology in different fields. The students got the opportunity of hands-on session on block chain technology, Remix IDE under the guidance of madam.



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Department of Information Science & Engineering  
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Jointly Organizes 3 days Workshop on  
**"The Use of Open Sources in Recent Technologies"**

**DAY-2**  
**SWARM INTELLIGENCE IN CLUSTER ANALYSIS AND SCI LAB**  
Resource Person

**Friday**  
April 28th, 2023

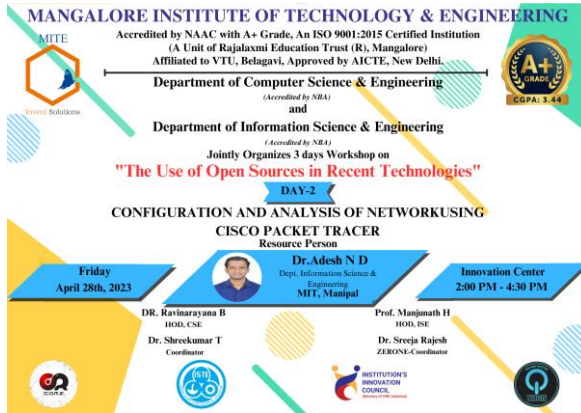
**Dr. Ahammed Shafeeq B M**  
Dept. Computer Science & Engineering  
MIT, Manipal

**Innovation Center**  
10:00 AM - 12:30 PM

DR. Ravinarayana B  
HOOD, CSE  
Dr. Shree Kumar T  
Coordinator


Prof. Manjunath H  
HOOD, ISE  
Dr. Sreeja Rajesh  
ZERONE-Coordinator

Day2 morning session was about Swarm Intelligence by Dr. Ahammed Shafeeq B M, Assistant Professor-Selection Grade, Department of Computer Science and Engineering, Manipal Institute Of Technology, Manipal. Dr. Shafeeq gave brief information about swarm intelligence. Flock of birds, whale swarm all are made by adjusting to the neighbours, paralysation is required to improve the time complexity. Later the students got opportunity of hands on session on SCI Lab.



Day2 afternoon session was about network configuration and cisco packet tracer. Dr. Adesh N D gave brief information on network configuration and analysis. The students had hands on session on various topics like tracert, ipconfig, ifconfig. Wireshark and Cisco Packet Tracer tools were used. Overall, the session was informational.

Dr. Adesh N D is Assistant Professor-Senior Scale, Department of Information and Communication Technology at Manipal Institute of Technology, Manipal. His skills and expertise include Computer Networking, Network Communication, QoS, Wireless Computing, Network Management.

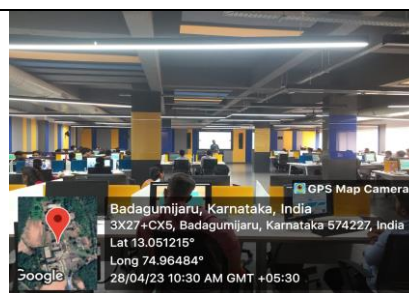


Day3 session was about APIs and Postman. Dr. Mohith P Tahiliani gave good information about the types of APIs used, methods and address used. He gave information about Postman. The students completed certification course on Postman API Fundamentals Student Expert. The students gained an insight on The Use of Open Sources in Recent Technology.

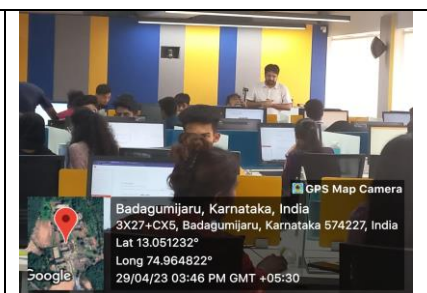
Dr. Mohith P Tahiliani, Assistant Professor, Department of Computer Science and Engineering, NITK, Surathkal. He is a certified EMC Proven Professional. As open-source enthusiasts, his team contributed a new packet scheduler called 'FQ-PIE' to Linux Kernel V5.6. He has been serving as a co-maintainer for TCP and traffic control modules in NS-3, and as mentor and org admin for Google Summer of Code (GSoC) for ns-3. He is the Chairperson of IEEE Mangalore Sub-Section, Member of the Steering Committee of NS-3 consortium and member of the Board of India Internet Engineering Society.



Day 1 Session



Day 2 Session



Day 3 Session



**Talk on ' Research Publications'**  
by **Dr. Sreeja Rajesh and Ms. Divyashree S**

**Date: 2<sup>nd</sup> May 2023 and 3<sup>rd</sup> May 2023**



The Department of Information Science & Engineering ZERONE Association organized a technical talk “**Research Publications**” on 02-05-2023 to 03-05-2023. The resource person for the event was Dr Sreeja Rajesh, Associate Professor, ISE Department, MITE and Ms. Divyashree S, Assistant Professor, ISE Department, MITE. On 2<sup>nd</sup> May 2023, Dr. Sreeja Rajesh in the talk on "How to Write a Research Paper and Publish It" outlined the key aspects of research paper writing and publication.

She discussed the importance of selecting a research topic, conducting a literature review, writing an abstract, and formatting the paper as per the guidelines of the target journal. She also discussed the peer-review process and provided insights into the expectations of journal editors.

On 3<sup>rd</sup> May 2023, talk was delivered by a Ms. Divyashree S, Assistant Professor in the department of Information Science discussed about plagiarism and its negative consequences, both for the student's academic performance and their reputation. The speaker then introduced various plagiarism detection tools, including Turnitin, Grammarly, and PlagScan, and demonstrated how they work. The students were provided with practical examples of how to use these tools to detect and avoid plagiarism in their academic writing.



Talk by Dr. Sreeja Rajesh



Talk by Ms Divyashree S

## Workshop on “MATLAB TECH DAY”

Date: 14<sup>th</sup> June 2023



The workshop was divided into two sessions, with Mr Rakshith B S and Mrs. Navitha Mohankumar leading the morning session and Mr. Souvick Chatterjee joining the participants online for the afternoon session. Mr. Rakshith B S is currently working at CoreEL Technology as an Associate Manager-Application Engineer. Previously, he served as a lecturer at Brindavan College of Engineering for nearly 5 years. With a total experience of over 3 years, he has worked as a Senior Application Engineer for more than 2 years and as an Associate Manager-Application Engineer for about 1 year.

Mrs. Navitha Mohankumar began the session by tracing the history of MATLAB, which originated in 1984. Important years in MATLAB's development include 1985 and 1988, which marked significant milestones (please provide specific details if available). She also highlighted MATLAB's arrival in India in 2008. Furthermore, she discussed the emerging trends in the industry, such as big data, IoT, computer vision, online learning, cloud platforms, software integration, and the electrification of everything. She encouraged participants to explore MATLAB daily and become familiar with its features and capabilities. Additionally, she provided definitions of MATLAB as a programming environment for algorithm development, data analysis, visualization, and numeric computation, and Simulink as a graphical environment for designing, simulating, and testing systems. She also mentioned that the latest version of MATLAB at the time of the workshop was

R2023a, accompanied by over 100 add-on products.

Mr. Souvick Chatterjee commenced the afternoon session by providing practical examples of AI and engaging participants in a discussion on basic concepts. He proceeded to demonstrate basic image recognition using MATLAB code. The code snippet involved reading and displaying an image, resizing it, and using the AlexNet model for classification. Overall, the workshop offered valuable insights into MATLAB and AI, empowering participants to leverage these tools effectively for algorithm development, data analysis, visualization, and AI applications.



**Talk on ' Enhancing Soft skills and Technical skills '**  
**by Nishchith**  
**Software Developer, Tieto Evry, Bangalore**

**Date: 5<sup>th</sup> August 2023**

Mr Nishchith, Software Developer, Tieto Evry, Bangalore and an Alumni of Information Science and Engineering Department 2022 gave an insight to the students regarding how to develop soft skills. Balancing technical expertise with strong soft skills can make you a well-rounded engineering professional who not only excels in your field but also effectively collaborates and communicates with others. It was likely focused on the process of acquiring and improving specific abilities or competencies. The talk covered various aspects related to skill development, including methodologies, tools, and strategies that individuals can use to enhance their skills. He made the students understand that soft skills focus on personal attributes that enable effective interaction and collaboration, while technical skills pertain to specific competencies required for a particular job or task. A well-rounded individual often possesses a combination of both types of skills to succeed in various personal and professional situations. Soft skills are not typically taught in a traditional classroom environment but are developed through experience, practice, and self-awareness which includes skills like communication, teamwork, problem solving capability, adaptability, leadership, time management, emotional intelligence, conflict resolution, networking etc. Also, he addressed the about the technical skills, also known as hard skills, are specific competencies and knowledge that are directly related to a particular job, task, or field. These skills are often acquired through formal education, training, and hands-on experience. Technical skills are measurable and can be more easily demonstrated or assessed compared to soft skills. The students were very interactive with the resource person.



**Talk on ' Web Development with React JS '**  
**by Roshan Shetty**  
**Software Developer, NTT Data, Bangalore**

**Date: 5<sup>th</sup> August 2023**

Mr Roshan Shetty, Software Developer, NTT Data, Bangalore has highlighted the role of React JS in Web Development. React was created with a single focus to create components for web applications. But as React's popularity is grown, its ecosystem has also grown to cover various use cases.

React can be used in existing apps. React was designed keeping this in mind. He said react can change a small part of your existing application by using React, and if that change works, then people can start converting your whole application into React.js. Facebook used the same approach. He explained that JavaScript is fast, but updating the DOM makes it slow. React minimizes DOM changes. And it has figured out the most efficient and intelligent way to update DOM React is an excellent tool with which to create interactive applications for mobile, web, and other platforms. He mentioned that React's popularity and usage are increasing day by day for good reasons. As a developer, coding in React makes you better at JavaScript, a language that holds nearly 90% of the web development share today.

