

Report

Alumni Technothon- MITE (ATM-AY 2022-23) SERIES - II

Date: 19.05.2023 & 20.05.2023



MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

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Two Days Alumni Technothon– MITE (ATM-AY 2022-23)

SERIES-II

Alumni Technothon– MITE (Series II), a Two Days Alumni program conducted on 19th & 20th May 2023 in which the students have participated to gain knowledge on engineering aspects, the attitude of the professional engineer and professional challenges in the current scenario and also the scope for preparation to upgrade the requirements with respect to confidence, personality, communication skills, body languages and technical skills.

MITE, guided by the core value of “**family culture**”, strongly believes Alumni, as an integral part of the MITE family, present achievements and future hope. This firm conviction has encouraged the institution to develop lifelong **commitment through continuous engagement with proud alumni of Engineering and Management Studies** spread across the globe, established well in the chosen profession with their global competency, making a positive impact as **brand ambassadors of the alma mater**.

The speakers for the Two days “Alumni Technothon – MITE” were:

Ms. Chaya, Associate Project, Cognizant, Bengaluru



Topic: Insight into Manual Testing and Automation Testing

Designation: Associate Project, Cognizant, Bengaluru

Education:

BE: Department of Computer Science & Engineering
(Alumnus, Batch 2013-17)

Mr. Bashid, Development Manager, Advanced Inhalation Rituals, Dubai



Topic: Understand JS and React Basics- Hands on session

Designation: Development Manager, Advanced Inhalation Rituals, Dubai

Education:

BE: Department of Computer Science & Engineering
(Alumnus, Batch 2014-19)

Mr. Nagendra R K, Professional 1 Software Engineer, DXC Technologies, Bengaluru



Topic: Oracle Database

Designation: Professional 1 Software Engineer, DXC Technologies, Bengaluru

Education:

BE: Department of Mechatronics Engineering (Alumnus, Batch 2016-20)

Mr. Mohammed Hannan, Airport Operations and Customer Services-Security, Interglobe Aviation Pvt. Ltd., Mangalore



Topic: Aviation Industry

Designation: Airport Operations and Customer Services-Security, Interglobe Aviation Pvt. Ltd., Mangalore

Education:

BE: Department of Aeronautical Engineering (Alumnus, Batch 2012-16)

Mr. Vijesh Suvarna, Senior Software Development Engineer, MResult Pvt. Ltd., Mangalore




Topic: Switching Lanes: Transitioning from Civil Engineering to Software Development

Designation: Senior Software Development Engineer, MResult Pvt. Ltd., Mangalore


Education:

BE: Department of Civil Engineering (Alumnus, Batch 2014-18)


Mr. Deepak Baburaj, Associate Data Analyst, Diacto Technologies, Pune

	<p>Topic: Requirements for Stable Career Path and the need of Career Transition</p> <p>Designation: Associate Data Analyst, Diacto Technologies, Pune</p> <p>Education: BE: Department of Mechanical Engineering (Alumnus, Batch 2016-19)</p>
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Ms. Rachana S Kotian, Associate Business Analyst, TietoEvy, Bengaluru

	<p>Topic: My Job Experiences as Business Analyst</p> <p>Designation: Associate Business Analyst, TietoEvy, Bengaluru</p> <p>Education: PG: Department of Management Studies (Alumnus, Batch 2018-20)</p>
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Mr. Adithya, Technology Analyst, Infosys Limited, Mangalore

	<p>Topic: Campus to the Corporate World</p> <p>Designation: Technology Analyst, Infosys Limited, Mangalore</p> <p>Education: BE: Department of Aeronautical Engineering (Alumnus, Batch 2015-19)</p>
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Mr. Yathish Poojary, Senior analyst, Taxation, PWC Bengaluru

	<p>Topic: My Experiences in PWC</p> <p>Designation: Senior analyst, Taxation, PWC, Bengaluru</p> <p>Education: PG: Department of Management Studies (Alumnus, Batch 2017-19)</p>
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Ms. Gayathri R L, Inside Sales Lead, SaaS, Infraon Corp, Bengaluru

	<p>Topic: The Transition from Student to Professional: Meeting Industry Demands</p> <p>Designation: Inside Sales Lead, SaaS, Infraon Corp, Bengaluru</p> <p>Education: BE: Department of Computer Science & Engineering (Alumnus, Batch 2011-15)</p>
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Ms. Fazila Naz, Design Verification Engineer, MaxLinear Technology, Bengaluru

	<p>Topic: Electronics Core Industry and Scope of VLSI in it</p> <p>Designation: Design Verification Engineer, MaxLinear Technology, Bengaluru</p> <p>Education: BE: Department of Electronics & Communication Engineering (Alumnus, Batch 2014-18)</p>
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Mr. Prasanna Poojari, Senior Security Analyst, London Stock Exchange Group, Bengaluru



Topic: Cyber Security

Designation: Senior Security Analyst, London Stock Exchange Group, Bengaluru

Education:

BE: Department of Electronics & Communication Engineering (Alumnus, Batch 2013-17)

Mr. Vinaya Kumar SV, Site Engineer, Suresh Constructions, Bengaluru



Topic: Career Growth in Civil Engineering

Designation: Site Engineer, Suresh Constructions, Bengaluru

Education:

BE: Department of Civil Engineering (Alumnus, Batch 2014-18)

Mr. Naveen Kumar Ravi, Senior Application Engineer, Conceptia Software Technology Pvt. Ltd., Dassault Systems, Bengaluru



Topic: Future of Design, Development and Industrial Exposures

Designation: Senior Application Engineer, Conceptia Software Technology Pvt. Ltd., Dassault Systems, Bengaluru

Education:

BE: Department of Mechatronics Engineering (Alumnus, Batch 2016-19)

Mr. Sharad B Anchan, VP of Engineering, Blackfrog Technologies Pvt. Ltd., Manipal



Topic: Advancement in Cold Chain Technology in Recent Years

Designation: VP of Engineering, Blackfrog Technologies Pvt. Ltd., Manipal

Education:

BE: Department of Mechanical Engineering
(Alumnus, Batch 2015-18)

DAY – 1

19th May 2023

Brief about the event:

SESSION-1

Title: Insight into Manual Testing and Automation Testing

Resource Person: Ms. Chaya, Associate Project Cognizant, Bengaluru

Graduated Year: 2017 (Department of Computer Science & Engineering)

Profile of the Resource Person: Ms. Chaya is an alumnus of batch 2013-17. She is currently working as an Associate Project Cognizant, Bengaluru.

Keynote Address: The speaker started her session by giving brief introduction to Software Testing. Testing is a process used to help identify the correctness, completeness and quality of developed computer software. Also it is a process of executing a program/application under positive and negative conditions by manual or automated means.

Objectives of testing

Uncover as many as errors (or bugs) as possible in a given product. Demonstrate a given software product matching its requirement specifications. Validate the quality of a software testing using the minimum cost and efforts. Generate high quality test cases, perform effective tests, and issue correct and helpful problem reports.

Software Testing lifecycle – Phases

Requirements study Testing Cycle starts with the study of client's requirements. Understanding of the requirements is very essential for testing the product.

Test Plan is a systematic approach to test a system i.e, software. The plan typically contains a detailed understanding of what the eventual testing workflow will be. The test objectives are overall schedule, resources required, including necessary training.

Test Case Design and Development The test case development phase gets started once the test planning phase is completed. In this phase testing team notes down the detailed test cases. The testing team also prepares the required test data for the testing. When the test cases are prepared then they are reviewed by the quality assurance team.

Test Environment Setup Test environment setup is a vital part of the STLC. Basically, the test environment decides the conditions on which software is tested. This is independent activity and can be started along with test case development.

Test Execution After the test case development and test environment setup test execution phase gets started. In this phase testing team starts executing test cases based on prepared test cases in the earlier step.

Test Closure Test summary report, Project Documentation.

Testing Levels

Unit testing Tests each module individually, Done by developers.

Integration testing Once all the modules have been unit tested, integration testing is performed. Produce tests to identify errors associated with interfacing.

System testing The system as a whole is tested to uncover requirement errors. Verifies that all system elements work properly and that overall system function and performance has been achieved.

Manual Testing is the process of testing the software manually. When we use human resources to perform testing then we can consider the testing as Manual. The skills, knowledge, and experience of the testers play an important role in Manual Testing.

Automation Testing The usage of automation tools for executing test cases is known as Automation Testing. It is a type of testing for which we need resources with the knowledge of scripting, etc. Selenium, Cypress, Playwright are some examples of automation tools. Selenium comes with C#, JAVA, Pearl, PHP, Python, JavaScript and Ruby. Hence having knowledge of any of these listed languages will work.

The session was attended by 134 students from the Department of Computer Science and Engineering.

SESSION-2

Title: Understand JS and React Basics- Hands on session

Resource person: Mr. Bashid, Development Manager, Air Group Ventures R, Dubai

Graduated Year: 2019 (Department of Computer Science & Engineering)

Profile of the Resource Person: Mr. Bashid currently working for Air Group Ventures Rep, Via ADT, Dubai as Development Manager (Magento/Adobe commerce +React)- Adobe commerce certified. Previously worked as Senior Developer/ Front end Lead at Corra.

Hands-on Session: The hands-on session aimed to provide students with a comprehensive understanding of JavaScript programming language and React library, a popular JavaScript library for building user interfaces. Participants were given practical exposure to developing web applications using JavaScript and React, enabling them to gain essential skills for modern web development.

The workshop had the following key objectives:

- a) Introduce participants to the fundamental concepts of JavaScript programming language.
- b) Familiarize participants with React, a popular JavaScript library for building user interfaces.
- c) Provide hands-on experience in developing a web application using JavaScript and React.
- d) Enable participants to understand the significance of JavaScript and React in modern web development and their interplay.

The workshop was attended by 30 enthusiastic students from the Department of Computer Science and Engineering.

Workshop Content: The workshop had hands-on session with a mix of theoretical explanations, practical demonstrations, and coding exercises. The content covered during the workshop included:

The workshop covered the following topics:

Session 1: Introduction to HTML, CSS and JavaScript[10am-1pm]

Overview of HTML, CSS and JavaScript and its role in web development.

HTML tags and CSS stylings, selectors and Box-Modelling and also about JavaScript syntax and data types.

Variables, functions, and control flow statements in Javascript.

Core Fundamentals: JSON, Objects.

Introduction to the Document Object Model (DOM) and manipulating HTML elements using JavaScript.

Session 2: Introduction to React[2pm-5pm]

ECMAScript: arrow functions, spread operator, find, find index.

Installation of NodeJS and about NPM.

Introduction to React library and its advantages.

React components and component-based architecture.

State and props in React.

Creating and rendering React components.

Throughout the workshop, participants actively engaged in coding exercises, where they practiced from programming JavaScript to creating React components.

The hands-on workshop on the basics of JavaScript and React provided participants with a solid foundation in these essential web development technologies. Through practical exercises and project development, participants gained hands-on experience in utilizing JavaScript and React to build web applications. The workshop equipped them with valuable skills and knowledge that are highly relevant in today's web development landscape. The positive feedback received from the participants indicates the workshop's effectiveness in achieving its objectives.

SESSION-3

Title: Oracle Database

Resource Person: MR. Nagendra R K, Professional 1 Software Engineer, DXC Technologies, Bengaluru

Graduated Year: 2020 (Department of Mechatronics Engineering)

Profile of the Resource Person: Mr. Nagendra R K is an alumnus of batch 2016-20. He is currently working as a Software Engineer at DXC Technologies, Bengaluru.

Keynote Address: The speaker started his session by giving an insight to the ORACLE DATABASE. Oracle Database is powerful software used to store and manage large amounts of information, like a digital library. It's like a super organized and secure filing system for data. The main point he had highlighted was DDL (Data Definition Language) and DML (Data Manipulation Language). The speaker briefly explained about the Owner Account and End user Account. He mentioned that in Oracle Database, data is stored using Table Spaces. It was a big table where you can store different types of information, like names, addresses, or even complex things like images and documents. This table is divided into smaller sections

called tables, and each table has its own set of columns and rows. He informed that database can be accessed by DBA. He mentioned about his Banking project. He also informed that the best thing about Oracle Database is that it can handle lots of data without slowing down. It's designed to be fast and efficient, even when dealing with huge amounts of information. It's like having a super-fast librarian who can find any book in an instant, no matter how many books are in the library. He also mentioned that Oracle Database also makes sure that your data is safe and secure. It has built-in features to prevent unauthorized access and keep your information protected. It's like having a locked vault where only authorized people can enter and make changes. Another great feature of Oracle Database is that it allows multiple people to access and work with the data at the same time. It can handle many users without getting confused or mixing up the information. It's like having a team of librarians who can all work together smoothly. The speaker ended the session by saying that overall Oracle Database is a reliable and efficient tool for storing and managing data. It's like a digital library with super-fast searching, strong security, and the ability for many people to work on the data together. Around 50 participants attended the session and benefited from it.

SESSION-4

Title: Aviation Industry

Resource Person: Mr. Mohammed Hannan, Airport Operations and Customer Services-Security, Interglobe Aviation Pvt. Ltd., Mangalore

Graduated Year: 2016 (Department of Aeronautical Engineering)

Profile of the Resource Person: Mr. Mohammed Hannan is an alumnus of batch 2012-16. He is currently working in Airport Operations and customer services-Security Interglobe Aviation PVT Limited, Mangalore

Keynote Address: The session began by providing background information on the aviation industry. He had emphasized the importance of civil, general, and military aviation. The process in the airport was briefly outlined by the speaker. The term 'aviation' is most commonly used to describe mechanical air transportation, which is carried out using an aircraft. The two main types of aircraft are aeroplanes and helicopters, but most modern definitions of the word 'aviation' extend beyond this to include the use of unmanned aircraft, such as drones. The terms 'aviation industry' and 'airline industry' are sometimes thought of as being interchangeable, but they do actually describe different things. An airline is a business offering air transportation services for people or cargo, with the airline industry

being the collective term used to describe these companies. The airline industry forms just one part of the wider aviation industry. In addition to airlines, the aviation industry also includes aircraft manufacturers, researchers, air safety specialists, businesses involved with military aviation and, increasingly, companies that design, produce and make use of drones.

The importance of the modern aviation industry is difficult to overstate, but one of the main reasons for this importance is the globalised nature of the industry, helping to connect different continents, countries and cultures. As a result, global aviation has been key in facilitating efficient travel to distant places, enriching many lives in the process.

The aviation industry has also been a key contributor to global economic prosperity, not only as a result of the tourism industry boosting local economies, but also because it has allowed for improvements to global trade.

Meanwhile, the aviation industry also directly provides millions of jobs for people around the world, with examples including everything from pilots and cabin crew, through to air traffic controllers and aerospace engineers. On top of this, the aviation industry has helped to create many jobs in the wider travel and tourism industry too. Totally 55 participants attended the session and benefited from it.

SESSION-5

Title: Switching Lanes: Transitioning from Civil Engineering to Software Development

Resource Person: Mr. Vijesh Suvarna, Senior Software Development Engineer, MResult Pvt. Ltd., Mangalore

Graduated Year: 2018 (Department Civil Engineering)

Profile of the Resource Person: Mr. Vijesh Suvarna is an alumnus of batch 2014-18. He is currently working as a Senior Software Development Engineer, MResult Pvt. Ltd., Mangalore.

Keynote Address: The speaker shares his personal journey of transitioning from civil engineering to software development. The talk aims to inspire and motivate individuals who are considering a career switch, emphasizing that with determination, passion, and a willingness to learn, anyone can successfully transition to a new field. The keynote begins with an opening story that sparked the speaker's interest in software development and motivated them to pursue a career change. The speaker then highlights the transferable skills

acquired as a civil engineer and how they can be applied to software development, including problem-solving, attention to detail, analytical thinking, project management, and communication skills.

The speaker outlines the steps they took to build a solid foundation in software development, such as self-study, online courses, coding bootcamps, or pursuing a computer science degree. He also shares the challenges he faced during the learning process and how he overcame them.

Navigating the job market is a crucial aspect of transitioning careers, and the speaker discusses the strategies he used to navigate this new terrain. The speaker provide insights into building a strong software development portfolio, networking, leveraging transferable skills, and gaining relevant experience.

The keynote concludes by encouraging the audience to embrace change, follow their passions, and pursue their dreams. The speaker's personal journey serves as a testament to the possibilities and opportunities that arise from switching lanes and embarking on a new career path. Around 15 participants attended the session and benefited from it.

SESSION-6

Title: Requirements for Stable Career Path & the need of Career Transition

Resource Person: Mr. Deepak Baburaj, Associate Data Analyst, Diacto Technologies, Pune.

Graduated Year: 2019 (Department of Mechanical Engineering)

Profile of the Resource Person: Deepak Baburaj is a highly skilled professional who has made a successful transition in his career, combining his expertise in US recruitment with a passion for data analytics. With a solid background in US recruitment spanning over two years, Deepak has honed his skills in understanding the intricate dynamics of the industry.

However, driven by an inherent curiosity and a desire to explore new horizons, Deepak embarked on a new journey by transitioning his career to the fascinating world of data analytics. Joining forces with Diacto, a renowned organization in the field, Deepak eagerly embraced the opportunity to delve into the realm of data and derive valuable insights from it. Deepak is well-versed in programming languages such as Python and R, which are widely used for data analysis and statistical modeling.

Keynote Address: Mr. Deepak Baburaj in his talk emphasized on the today's fast-paced and dynamic work environment, the concept of a stable career path has undergone significant changes. Traditional notions of job security and lifelong employment have given way to a more fluid and adaptable approach to career development. Building a robust professional network is essential for career stability. Networking allows individuals to tap into opportunities, gain industry insights, and access valuable resources. Career transition has become an increasingly prevalent concept as professionals seek new challenges and opportunities for growth. Before embarking on a career transition, individuals should evaluate their strengths, weaknesses, and career aspirations. He advised students about the setting clear goals and aligning them with personal values can help guide the transition process effectively. Career transition can be challenging, and setbacks are inevitable. Developing resilience, maintaining a positive mindset, and being open to adapting plans as needed are essential to navigate through the transition period. In conclusion, he mentioned for a stable career path in today's world requires adaptability, lifelong learning, and a proactive approach. Totally 27 participants attended the session and benefited from it.

DAY - 2

20th May 2023

SESSION-7

Title: My Job Experience as Business Analyst

Resource Person: Ms. Rachana Kotian, Associate Business Analyst, TietoEvry, Bengaluru

Graduated Year: 2020 (Department of Management Studies)

Profile of the Resource Person: Ms. Rachana Kotian is an alumnus of batch 2018-20. She is currently working as a associate business analyst, Bengaluru.

Keynote Address: Ms. Rachana Kotian started her session by mentioning the importance of academics to be successful in a corporate career. She said, focusing on classroom learning and having a strong fundamental knowledge of the concepts related to the industry in which students have an interest is essential to be successful. She said; to focus on gaining additional knowledge by reading relevant books from the library which will support the students when facing interviews or when performing a job. She said: along with the classes, participating in Co-curricular activities is also important.

She mentioned not just participating in fests or participating in college activities is not sufficient, she highlighted the importance of taking up classroom activities like presentations, participating in GD, responding to questions from faculties, taking up leadership positions, performing activities like talking up Mc, etc. She also mentioned taking up online courses from websites like Coursera, NPTEL, MOOCs, etc. This will help in building their resume as well as will boost their confidence while facing the interview they will be unique when they give an interview and their resume also will be unique among a lot. She appealed to students to focus on campus placement because going to placement outside the campus will be very much challenging because unlike them there will be students from many other colleges and the level of competition will be very high so getting placements will become challenging.

She in her talk spoke about her position and her job profile in her company. She said: she got campus placement and she was extremely happy about her campus placement. She had not many expectations from the job as she was not much aware of her profile. She said continuous learning made her learn the job profile in depth and she is being successful in managing her profile. She mentioned that these profiles are given to those people who have eight to 10 years

of experience in terms of software development and they will also have a good number of years of experience as a management trainee.

Ms. Rachana Kotian appealed to students to keep learning regularly. She said continuous learning made her learn her job profile quickly and become successful in the profile. She also mentioned that there is a lot of demand for business analyst positions but students need to have a strong fundamental knowledge else they will be outdated to perform that job. In classrooms, faculties will teach all fundamental concepts but students focus only on numerical and other factors which as a student they have to change and they have to focus on fundamental factors so that when in a job they can perform the job easily. She appealed to students to ensure that they take up all the opportunities other than curriculum and take maximum advantage of being on campus. She appealed to students to focus on campus placement. The session ended with a question and answer from students. Totally 112 participants attended the session and benefited from it.

SESSION-8

Title: Campus to the Corporate World

Resource person: Mr. Aditya, Technology Analyst, Infosys Limited, Mangalore

Graduated Year: 2019 (Department of Aeronautical Engineering)

Profile of the Resource Person: Mr. Aditya is an alumnus of batch 2015-19. He is currently working as Technology Analyst in Infosys Limited, Mangalore.

Keynote Address: The speaker started his session by giving an insight to Transition from students to professional life. The Higher education system is knowledge intensive. The domain knowledge is the first step towards starting any career. Knowledge is what gets one to the first job. However, getting a job does not mean one is industry ready. The students need the skills to survive in that job. These skills cannot be taught by any higher education curriculum. However, institutions can create a skill improvement environment around their knowledge-based curriculum, to ensure that students are truly Industry Ready. Students need to make extra efforts to develop the right skills along with focusing on knowledge through books.

A learning environment based on encouragement rather than fear, helps students develop a positive attitude. Teamwork is crucial here. Group project work, group games, and group competitions also help by providing the right social development of students. The corporate

world is all about succeeding in teams. Individual success may help in the initial 2-5 years. That's it. The road beyond that is all about Team success. Passion helps one to run the entire Corporate Marathon. The corporate journey is a long one with its own ups and downs. Passion is what gives the runners a reason or a purpose to keep running in spite of the odds. When people are passionate about what they are doing, work does not seem like work. Work becomes joy.

A continuous learning mindset helps one to become an all-around professional. Campuses can enable the creation of this mindset amongst students by offering flexibility in the courses that the students can choose. This will enable the students to learn to make choices and be open to learning diverse subjects and skill sets. Totally 50 participants attended the session and benefited from it.

SESSION-9

Title: My Job Experience in PWC

Resource person: Mr. Yathish Poojary, Senior Analyst, Taxation, PWC, Bengaluru

Graduated Year: 2019 (Department of Management Studies)

Profile of the Resource Person: Mr. Yathish Poojary is working as a senior analyst, Taxation, PWC, Bangalore for 3.5 years.

Keynote Address: Mr. Yathish started the session by mentioning career opportunities in Big-IV firms. He said, the opportunities are plenty but students need to choose the right path in their career choice and need to start their journey in that direction right from their college days. Modern technologies like AI, IoT, etc. are taking over jobs which human beings used to do once Upon a time. So he requested students to select a carrier in one such industry where the carrier can for long for the next 15 to 20 years and the experience gained in all these years will be useful in making their life for the upcoming years.

He suggested students take up campus placements seriously. He advised students to make a list of at least 10 companies which is their dream organizations. Focusing on these organizations will help students to prepare according to the requirements of those organizations and they can also learn about job specifications which these organizations offer to the fresher's. He advised students to have social media accounts, particularly on LinkedIn, Naukri.com, etc and make sure they have a strong resume and particular keywords are mentioned about their interested career choices. He said LinkedIn is a great place for students

to know about career opportunities get connected to people who are in that industry and get friends and it will help in getting better placement for them.

Once students know what is expected from them preparing in that direction will become easy. LinkedIn will generally guide students about what sort of questions will be asked in an interview and the relevant answers will also be available for students. He said students need to prepare on campus for attending interviews and getting placed. Students must practice aptitude questions GD and HR rounds on campus because always the classrooms are experimenting grounds for students and whatever they learn here will be very useful for students in building up their career. He urged students to be fundamentally strong in whichever industry they are focusing on. He mentioned the students the companies are looking for smart candidates. So wide knowledge in varied fields will give confidence to students to face the interview and get selected for their dream positions.

Mr. Yathish requested students not to forget their passion. If they can meet their passion as their profession it's great. Otherwise, students need to focus on their passion because passion will motivate them to work continuously and a day will come when they may need to focus only on their passion. Their passion could be anything like painting drama gardening cooking etc. There are a lot of hobbies which will help students to build their careers and it may become a strong point in their resume following their hobby they should also be prepared to face relevant questions about those hobbies. The session ended with a question and answer from students. Totally 112 participants attended the session and benefited from it.

SESSION-10

Title: The Transition from Student to Professional: Meeting Industry Demands

Resource person: Gayathri R L, Inside Sales Lead, SaaS Infraon Corp, Bengaluru

Graduated Year: 2015 (Department of Computer Science & Engineering)

Profile of the Resource Person: Ms. Gayathri R L , currently working as Inside Sales Lead, SaaS, Infraon Corp, Bangalore from 2021. Started career at Evry India Pvt Ltd between 2015 to 2017. Then moved to Accion Labs Pvt Ltd between 2017 to 2021.

Keynote Address: The speaker started her session by giving an insight to the Meeting Industry Demands. With her extensive experience and insights, she shared valuable information and guidance on how to navigate the transition from being a student to entering the professional world, addressing the ever-evolving demands of the industry.

During the talk, Gayathri R L covered the following key points:

Career options for a B.E. CS student

The world of computer science is vast and varied, offering a plethora of career options for a B.E. CS student. One such option is software development, which involves designing and developing software applications that can be used on various platforms. Another option is data analysis, which involves analysing large sets of data to identify patterns and trends that can help businesses make informed decisions.

Product vs Service Companies

Product-based companies are those that produce tangible goods that can be sold to customers. Examples of these include Google, Amazon, IBM, Flipkart . On the other hand, service-based companies offer intangible services to their clients, such as consulting, healthcare, or education. Examples of these Wipro, Infosys, Accenture, Tata.

The gap

There are two kinds of smartness: Book Smart and Street Smart. People expect you to be book-smart for as long as you are a student of any kind. They expect you to switch to being street-smart the minute you graduate. They expect you to know all the tricks and trades of being a smart worker. Some are gifted in this. Some of us struggle even after working for many years.

Developing Professional Skills

In addition to practical experience, developing professional skills is crucial for a successful transition. These skills include-Students can develop these skills through extracurricular activities, volunteer work, or by taking courses outside of their major. It is important to continually improve and refine these skills throughout one's career. It is important to continually improve and refine these skills throughout one's career.

Networking and Building Relationships

Networking and building relationships is another important aspect of transitioning from a student to a professional. This involves attending industry events, joining professional organizations, and connecting with alumni and mentors.

Finally, continuing education and professional development is crucial for a successful transition and long-term career success. This includes staying up-to-date on industry trends

and developments, pursuing advanced degrees or certifications, and seeking out new learning opportunities.

The talk concluded with an interactive Q&A session, where students had the opportunity to seek clarification and further insights from Gayathri R L. The attendees expressed their gratitude for her valuable guidance and appreciated the relevance of the topics discussed.

The session was attended by 106 students from the Department of Computer Science and Engineering.

SESSION-11

Title: Electronics Core Industry and Scope of VLSI in it

Resource Person: Ms. Fazila Naz, Design Verification Engineer, MaxLinear Technology, Bengaluru

Graduated Year: 2018 (Department of Electronics & Communication Engineering)

Profile of the Resource Person: Ms. Fazila Naz is an alumnus of batch 2014-18. She worked as Junior Software Engineer at Mindtree from 2018 June to 2020 June. From 2020 to 2021 she was employed at Symphony Summit as a Product Engineer. In 2021, she switched her profession from Software to the core of Electronics Industry. Currently she works in MaxLinear Technology, Bengaluru as a Design Verification Engineer. She worked for clients at well-known firms/renowned firms which includes NXP semiconductors and Analog devices from Frenustech Company. Additionally, she also worked for the Samsung Galaxy S23'S Ultra wide band project at NXP Semiconductor. Her next project involved on automobile chip for display port feature, for analog devices. Currently, she is working on a project based on 5G technology.

Keynote Address: The speaker started her session by giving an insight to the jobs in Electronics core industry. She mentioned various electronics job roles in the industry which included Design Engineer, ASIC Engineer, Embedded Engineer, Network Support Engineer, Pre-Post Si Validation, Quality Analyst, Physical Designer, Architect, RTL Designer, DFT Engineer, FPGA Emulation Engineer etc. She explained each role briefly. The primary responsibility of a VLSI Design Engineer is to design and develop high-performance, low-power, and cost-effective integrated circuits. ASIC Design Engineers create Product Design Specification (PDS) statements for ASIC, optimize logic design, and create architectural design models. Pre-Silicon Validation allows for earlier identification of bugs further

upstream, reduces development times and enables more developers to access the latest simulated silicon. A Quality Analyst Engineer creates tests that identify issues with software before a product launch. A Physical Design Engineer is responsible for working with computer chips, circuits, and related components. They are in charge of analysing semiconductors, creating processor layout circuits, developing microchips and developing, maintaining, and executing other related activities. A VLSI System Architect is responsible for designing, developing, and implementing the overall system architecture of VLSI systems. RTL Design Engineer provides guidance to the team performing development activities such as RTL coding, Synthesis, Formal Verification, and Static Timing Analysis.

DFT in VLSI is a leading career choice these days as it involves architecture definition, logic design, verification, test pattern generation, and more. By specializing in VLSI DFT, an engineering graduate can increase their chances of landing a specialized and high-paying job in the semiconductor industry. FPGA Emulation Engineer performs requirements development and definition, design architecture and implementation, design simulation, and hardware test and validation. By displaying the flowchart, she imparted knowledge on VLSI Frontend and Backend process. The frontend flow is responsible to determine a solution for a given problem or opportunity and transform it into a RTL circuit description. The backend process is responsible for the physical implementation of a circuit.

She asked few brainstorming questions which included following.

- There are two bulbs, which gate you would use in such a way that only 1 bulb glows at a time?
- Consider a house with 2 power supplies- the major from power station. Secondary- from inverter. That is – Input 1 – power from major source Input 2 – power from inverter. Output – electrical appliances. Which gate is used?
- 5 major concepts of OOPs.

At the end of the session she highlighted the importance of job role preparation, good versus bad attitude in interviews and the workplace, low-key absorbency, eagerness to learn new things, and focus. A total of 84 students attended and benefited from the session.

SESSION-12

Title: Cyber Security

Resource person: Mr. Prasanna Poojari, Senior Security Analyst, London Stock Exchange Group, Bengaluru

Graduated Year: 2017 (Department of Electronics & Communication Engineering)

Profile of the Resource Person: Mr. Prasanna Poojari is an alumnus of batch 2013-2017. He worked in DXC Technology from 2017 to 2019 as Associate Professional in Information Security. From 2019 to 2021, he was employed at Accenture as Security Delivery Analyst. He also worked in EY Software as Security Consultant for 2 years. Currently, he is working as Senior Security Analyst at London Stock Exchange Group, Bengaluru.

Keynote Address: The speaker started his session by illustrating how firewalls are integrated into a network by displaying a simple firewall network design. Later, he explained briefly about Cyber Security and Cyber Attacks. Also the importance of Cyber Security was briefed to the audience. He stated that the primary victims of Cyber Attacks are Businesses, Government, Banking & Financial, Energy Companies, Educational Institutions, Media Outlets. He also informed about the most common cyber security threats and ways to prevent them which included Malware, Ransomware, Social Engineering/Phishing, Password Cracking Attacks and Man-in-the-Middle Attacks. Malware is also known as malicious code or malicious software. Malware is a program inserted into a system to compromise the confidentiality, integrity, or availability of data. It is done secretly and can affect your data, applications, or operating system.

Ransomware attacks often occur after an employee falls for a phishing email or other social engineering method it only takes one that gives malicious actors access to a corporate network. Social engineering refers to malicious activities designed to trick victims into providing confidential information, such as passwords or other credentials, or taking an action that gives the attacker financial or personal information. In password-based attacks, hackers use password-cracking software that can test thousands of potential passwords and brute force attacks to access secure accounts. These machines are successful as password rules, such as requiring capital letters, special characters, and numbers, have actually made passwords less secure. Man in the Middle (MitM) attacks occurs when attackers position themselves between a user and an application to eavesdrop or impersonate one of the parties, creating the illusion of a “business as usual” environment.

The speaker gave some tips for protecting our computers. He discussed the cyber security career path and how to get into this field. He guided the students to do various cyber security certification courses like CEH (Certified Ethical Hacker), CISA (Certified Information Systems Auditor), CISSP (Certified Information Systems Security Professional), CISM

(Certified Information Security Manager), OSCP (Offensive Security Certified Professional), ECSA (EC-Council Certified Security Analyst), CCSK (Certificate of Cloud Security Knowledge), CCSP (Certified Cloud Security Professional). The speaker ended his session by informing students about the preparations required for aptitude test and interview process. A total of 83 students attended and benefited from the session.

SESSION-13

Title: Career Growth in Civil Engineering

Resource person: Mr. Vinaya Kumar SV, Site Engineer, Suresh Constructions, Bengaluru

Graduated Year: 2018 (Department Civil Engineering)

Profile of the Resource Person: Mr. Vinaya Kumar SV is working as a Site Engineer, Suresh Constructions, Bengaluru.

Keynote Address: The talk begins by highlighting the diverse range of career paths available in civil engineering, from design and construction to project management and research. The speaker stresses the significance of identifying personal interests and strengths to pursue a specialized career track.

To foster career growth, the speaker emphasizes the value of staying updated with the latest industry trends, technological advancements, and best practices. The speaker discusses the importance of engaging in professional development activities such as attending conferences, workshops, and seminars. Additionally, they encourage participation in relevant certifications or advanced degree programs to enhance technical expertise and marketability.

Networking is highlighted as a crucial aspect of career advancement in civil engineering. The speaker provides insights into building professional connections, joining industry associations, and actively participating in networking events. Speaker stresses the significance of nurturing relationships with colleagues, mentors, and industry leaders to gain exposure to new opportunities and knowledge.

The speaker also emphasizes the role of leadership and management skills in career progression. They discuss the value of acquiring project management experience, honing communication and negotiation skills, and seeking out leadership opportunities within teams or organizations.

The talk concludes with a reminder to embrace challenges, take risks, and seek continuous improvement. By actively pursuing opportunities for growth, staying abreast of industry developments, and fostering professional relationships, individuals can achieve rewarding and fulfilling careers in civil engineering. Around 15 participants attended the session and benefited from it.

SESSION-14

Title: Future of Design, Development and Industrial Exposure

Resource person: Mr. Naveen Kumar Ravi, Senior Application Engineer, Conceptia Software Technology Pvt. LTD., Dassault Systems, Bengaluru

Graduated Year: 2019 (Department of Mechatronics Engineering)

Profile of the Resource Person: Mr. Naveen Kumar Ravi is an alumnus of batch 2016-2019. He is currently working as a Senior Application Engineer at Conceptia software technology Pvt. Ltd. Bengaluru.

Keynote Address: The speaker started his session by giving an insight to the Future of Design, Development and Industrial Exposures. He explained about the collaborative operations, Industrial engineering, Manufacturing and operations. He briefly mentioned about Fabrication, Robotics, Ergonomics, Process Engineering, Virtual factory and Lean manufacturing. He informed about Industrial exposure and how the dots between them are connected. He explained about Aerospace and Defense, Business services. He also informed us about Architecture, Engineering and construction, Consumer Packaged Goods and Retail. He addition to that he also told us about Infrastructure, Energy and materials, about High-Teshome and Life style, He explained about application or future of design in Transportation and mobility, Marine and offshore and also in Life sciences and health care.

He also mentioned that Design development and industrial exposure play crucial roles in shaping the future of various industries. Advancements in technology, such as artificial intelligence (AI), virtual reality (VR), and 3D printing, are transforming the design development landscape. These technologies enable designers to create, visualize, and iterate on their ideas with greater precision and efficiency. He said that Industrial exposure plays a vital role in preparing designers for real-world challenges and trends. Exposure to industries allows designers to understand the practical aspects of their work, gain insights into market demands, and develop problem-solving skills. The future of design development and

industrial exposure holds numerous opportunities He concluded his session by saying that the future of design development and industrial exposure is poised to be dynamic and transformative. Emerging technologies, evolving design processes, and industrial exposure will shape the way designers approach their work. By embracing these changes and leveraging the opportunities they present, designers can create innovative, sustainable, and user-centered solutions that meet the needs of a rapidly changing world. Around 30 participants attended the session and benefited from it

SESSION-15

Title: Advancement in Cold Chain Technology in Recent Years

Resource person: Mr. Sharad B Anchan, VP of Engineering at Blackfrog Technologies, Manipal, Karnataka, India

Graduated Year: 2018 (Department of Mechanical Engineering)

Profile of the Resource Person: Mr.Sharad B Anchan is a highly accomplished professional serving as the Lead Mechanical Engineer at Blackfrog Technologies. With an extensive background in mechanical engineering, Sharad brings a wealth of knowledge and expertise to his role. Throughout his career, Sharad has demonstrated exceptional skills in designing and developing mechanical systems, specializing in cutting-edge technologies and innovative solutions. His profound understanding of mechanical principles, coupled with his keen eye for detail, allows him to deliver high-quality designs and efficient engineering solutions.

Keynote Address: Mr.Sharad B Anchan in his talk highlighted on the cold chain industry which plays a vital role in preserving and transporting temperature-sensitive products, such as food, pharmaceuticals, and vaccines. The integration of Internet of Things (IoT) and sensor technology has greatly enhanced temperature monitoring and control in the cold chain. Wireless sensors equipped with real-time monitoring capabilities enable continuous temperature tracking, ensuring optimal conditions for sensitive products. Data analytics tools enable the analysis of large datasets generated by temperature sensors, providing valuable insights into cold chain operations. Advancements in refrigeration systems have resulted in more energy-efficient and environmentally friendly solutions. Innovative packaging materials and insulation technologies have improved thermal protection during storage and transportation. High-performance insulation materials, such as vacuum panels and phase change materials enhance temperature stability and minimize temperature fluctuations.

He mentioned about the advancements in cold chain technology which are significantly transformed the industry, ensuring the safe and efficient transportation of temperature-sensitive products. The integration of IoT, sensor technology, data analytics, energy-efficient systems, and blockchain technology has revolutionized temperature monitoring, cold storage, transportation, and supply chain visibility. Totally 25 participants attended the session and benefited from it.

Photographs



Speaker Ms. Chaya, Associate Project Cognizant, Bengaluru delivering a session on “Insight into Manual Testing and Automation Testing”



Mr. Bashid, Development Manager, Air Group Ventures R, Dubai delivering a hands-on session on “Understand JS and React Basics”



Mr. Nagendra R K, Professional 1 Software Engineer, DXC Technologies, delivering a session on “Oracle Database”



Speaker Mr. Mohammed Hannan, Airport Operations and Customer Services-Security, delivering a session on “Aviation Industry”



Speaker Mr. Vijesh Suvarna, Senior Software Development Engineer, MResult Pvt. Ltd., delivering a session on “Switching Lanes: Transitioning from Civil Engineering to Software Development”



Talk by Mr. Deepak Baburaj, Associate Data Analyst, Diacto, Pune



Ms. Rachana S Kotian, Associate Business Analyst, TietoEvrY addressing students of Management Studies



Speaker Mr. Aditya, Technology Analyst, Infosys Limited, delivering a session on “Campus to the Corporate World”



Speaker Mr. Yathish Poojary, Senior Analyst, Taxation, PWC addressing students of Management Studies



Speaker Gayathri R L, Inside Sales Lead, SaaS Infraon Corp, Bengaluru delivering a session on “The Transition from Student to Professional: Meeting Industry Demands”



Speaker Ms. Fazila Naz, Design Verification Engineer, MaxLinear Technology, Bengaluru delivering a session on “Electronics Core Industry and Scope of VLSI in it”



Speaker Mr. Prasanna Poojari, Senior Security Analyst, London Stock Exchange Group, Bengaluru delivering a session on “Cyber Security”



Speaker Mr. Vinaya Kumar SV, Site Engineer, Suresh Constructions, Bengaluru delivering a session on “Career Growth in Civil Engineering”



Speaker Mr. Naveen Kumar Ravi, Senior Application Engineer, Conceptia software Technology Pvt. Ltd., Dassault Systems, Bengaluru addressing the students



Talk by Mr. Sharad B Anchan, VP of Engineering at Blackfrog Technologies, Manipal