



## DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

(6 Branches CSE, ISE, ECE, EEE, ME& CE Accredited 3 years by NBA, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082



### DEPARTMENT OF INFORMATION SCIENCE

<b>Event Name</b>	<b>“PROGRAMMING ESSENTIALS IN C”</b>
<b>Theme</b>	Enhance the knowledge and skill set of student in the area of C Programming.
<b>Date</b>	1 <sup>st</sup> semester: 10-02-2021 to 10-02-2021 2 <sup>nd</sup> semester : 30-06-2021 to 30-09-2021
<b>Venue</b>	Department of ISE, DSATM (Online)

### Objectives of the Program/ Event

The objective of the course is to familiarize the student with the universal concepts of computer programming, present the syntax, semantics and basic data types of the C language, discuss the principles of the object-oriented model and its implementation in the C language, and demonstrate the means to resolve typical implementation problems with the help of standard C language libraries.

**Purpose:** To achieve the practical implementation skills on c for first and second semester students.

### About the Topic:

Course present the syntax, semantics and basic data types of the C language, discuss the principles of the object-oriented model and its implementation in the C language, and demonstrate the means to resolve typical implementation problems with the help of standard C language libraries.

- Introduction to compiling and software development
- Basic scalar data types, operators, flow control, streamed input/output, conversions
- Declaring, defining and invoking functions, function overloading,
- Data aggregates
- Strings processing, exceptions handling, dealing with namespaces,
- Object-oriented approach and its vocabulary
- Dealing with classes and objects, class hierarchy and inheritance
- Defining overloaded operators, self-defined operators, exceptions,
- Fundamentals of STL.

### Course Content:

Course Content	
Module 0	Installing and using programming environment.
Module 1	Introduction to computer programming, variables, and comments



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Module 2	Basic data types, Operations, and flow control.
Module 3	Flow controls(loops), int and float types, type casting and computer logic
Module 4	Switch, aggregating data into arrays, pointers, and the basics of strings
Module 5	Advanced operations on arrays and pointers, memory management and the basic
Module 6	Functions and structures
Module 7	Connections to the real world: files and streams
Module 8	Pre-processor and declarations

### **Evaluation Procedures in Architecting with Google Compute Engine specialization:**

- C course Enrolled students provided by unique login id by Cisco.
- Each course in the Cisco contains a combination of video lectures, demos, and hands-on labs.
- Students are required to watch all video lectures and necessary to answer the online quiz questions.
- Once students done the Video Lectures, Online Quiz exams and Course Self-Satisfaction Survey, then certificates will be provided by CISCO.
- Each course, students must be able to follow the above evaluation steps to complete their course.

### **Resource person/ participants:**

Dr. Sreenivasa Setty,  
Cisco Certified Trainer, DSATM.

**Number of participants:** 1<sup>st</sup> and 2<sup>nd</sup> Semester Students Department of ISE, DSATM participated.

**Vision:** Lead the students to proficiency in C programming language with CISCO training.

**Identification and addressing the GAP:** Bridge course on C should conduct for the first and second semester students as per VTU.

**Measurable outcomes:** Helps to students gain knowledge via the Cisco platform and chance to achieve C programming language credentials through online certification.



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### Department of Information Science & Engineering

<b>Event Name</b>	COURSE ON JAVA
<b>Theme</b>	<ul style="list-style-type: none"><li>• To give hands-on experience for students and to improve their confidence level in coding java programs</li><li>• To make the students to gain knowledge about java programs.</li><li>• To encourage students to design java mini projects.</li></ul>
<b>Date</b>	29/05/2021-10/7/2021
<b>Venue</b>	DSATM, Bangalore

#### Objectives of the Program/ Event

- To give hands-on experience for students and to improve their confidence level in coding java programs
- To make the students to gain knowledge about java programs.
- To encourage students to design java mini projects.

#### Purpose:

To achieve the practical implementation skills on JAVA for sixth semester students as per VTU syllabus.

#### About the Topic:

- The main agenda was to give hands-on experience for students and to improve their confidence level in coding java programs. The event was planned for 6 days with six sessions covering the java concepts in detail.

- This course helped the students to write java programs using concepts of Inheritance, Polymorphism, Multi-Threading, Exception Handling and Event Handling. The trainers helped the students to understand the concepts and code the programs. The session was made enthusiastic by adding some multiple choice questions which helps them for cracking interview questions in their placements.

**Course Content:**

<b>Course Content</b>	
Module 0	Introduction to JAVA, Applications of JAVA in various business sectors, Java buzzwords
Module 1	Operators, looping statements, Arrays, Break and continue statements in java Assignment to students
Module 2	Classes in java , constructor Relevant programs .Assignment and discussion with students
Module 3	Inheritance, Method overriding, Final keyword and Final classes in Java
Module 4	Exception Handling, Packages and interfaces in in java Assignment and discussion with students
Module 5	Multithreaded programming, Applets and Swings in Java Assignment and discussion with students

**Evaluation Procedures**

- After completion of each sessions students have to answer for multiple choice question related to respective topics covered in that sessions. That might help the students to glance and enrich their knowledge in the respective topics.
- Conducted final test consists 40 multiple choice questions that covers all topics covered in all sessions.

**Resource person/ participants:**

Mrs. Nagarathna C R , Assistant professor , Department of ISE, DSATM.

**Number of participants:**

All students of 6<sup>th</sup> semester, Department of ISE, DSATM participated

**Vision:**

Lead the students to proficiency in JAVA programming language.

**Measurable outcomes:**

This course helped the students to write java programs and chance to achieve Java programming language credentials through online certification.



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## Department of Information Science & Engineering

<b>Course Name</b>	<b>Programming Essential in C++</b>
<b>Theme</b>	The aim of the course is to familiarize the student with the universal concepts of C++ programming language.
<b>Date</b>	28/04/2021 to 14/08/2021
<b>Venue</b>	Department of ISE, DSATM (Online)

### Objectives of the Program/ Event

The objective of the course is to familiarize the student with the universal concepts of computer programming, present the syntax, semantics and basic data types of the C++ language, discuss the principles of the object-oriented model and its implementation in the C++ language, and demonstrate the means to resolve typical implementation problems with the help of standard C++ language libraries.

#### Purpose:

To achieve the practical implementation skills on C++ for fourth semester students as per VTU syllabus.

#### About the Topic:

Course present the syntax, semantics and basic data types of the C++ language, discuss the principles of the object-oriented model and its implementation in the C++ language, and demonstrate the means to resolve typical implementation problems with the help of standard C++ language libraries.

- Introduction to compiling and software development
- Basic scalar data types, operators, flow control, streamed input/output, conversions
- Declaring, defining and invoking functions, function overloading,
- Data aggregates
- Strings processing, exceptions handling, dealing with namespaces,
- Object-oriented approach and its vocabulary
- Dealing with classes and objects, class hierarchy and inheritance
- Defining overloaded operators, self-defined operators, exceptions,
- Fundamentals of STL.

#### Course Content:



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<b>Course Content</b>	
Module 0	Explaining the process of installing and using the programming environment.
Module 1	Introduction to common computer programming concepts, e.g. integers and variables.
Module 2	Discussion on advanced flow control and data aggregates.
Module 3	Introduction to pointers, functions and memory.
Module 4	Ways to access various kinds of data.
Module 5	Introduction to the fundamentals of object-oriented programming.
Module 6	Concept of Inheritance.
Module 7	Concept of exceptions.
Module 8	Discussion on operators and enumerated types.

#### **Evaluation Procedures in Architecting with Google Compute Engine specialization:**

- C++ course Enrolled students provided by unique login id by Cisco.
- Each course in the Cisco contains a combination of video lectures, demos, and hands-on labs.
- Students are required to watch all video lectures and necessary to answer the online quiz questions.
- Once students done the Video Lectures, Online Quiz exams and Course Self-Satisfaction Survey, then certificates will be provided by CISCO.
- Each course, students must be able to follow the above evaluation steps to complete their course.

#### **Resource person/ participants:**

Dr. Sreenivasa Setty, Cisco Certified Trainer, DSATM.

**Number of participants:** All students of 4<sup>th</sup> semester, Department of ISE, DSATM participated

**Vision:** Lead the students to proficiency in C++ programming language with CISCO training.

**Identification and addressing the GAP:** Bridge course on C ++ should conduct for the fourth semester students as per VTU.



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**Measurable outcomes:** Helps to students gain knowledge via the Cisco platform and chance to achieve C++ programming language credentials through online certification.



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### Department of Information Science & Engineering

#### Objectives of the Course

<b>Event Name</b>	Introduction to the Internet of Things 2.0
<b>Theme</b>	Creating awareness on Internet of Things.
<b>Date</b>	21.10.2020 to 06.03.2021
<b>Venue</b>	Department of ISE, DSATM (Online)

The goal of this course is to provide the learner with an engaging, exploratory view of the Digital Transformation that is taking place in businesses and the world and to encourage the learner to continue in the IoT Fundamental course pathway.

#### About the Course

This course teaches the fundamentals of the Internet of Things, covering the value of the IoT and how it is transforming our lives, our industries, and even the cities in which we live. The learner is presented with an engaging, exploratory view of programming IoT devices, Big Data, analytics, and automation. The course introduces Digital Transformation and highlights the impact digitization is having in businesses and the world. The course encourages the learner to continue in the IoT Fundamental course pathway.

The course has many features to help students understand these concepts:

- Rich multimedia content, including interactive activities, videos, games, and quizzes, addressing a variety of learning styles to help stimulate learning and increase knowledge retention.
- Hands-on labs and Packet Tracer simulation-based learning activities help students develop critical thinking abilities and complex problem solving skills.
- Innovative assessments provide immediate feedback to support the evaluation of knowledge and acquired skills.
- Technical concepts are explained using language that works well for learners at all levels, and embedded interactive activities break up reading of the content and reinforce understanding.
- The curriculum encourages students to consider additional IT education, but also emphasizes applied skills and hands-on experience.

Cisco Packet Tracer activities are designed for use with Packet Tracer 7.1.1.

#### Resource persons:

**Dr. Sreenivasa Setty**

Assoc. Professor,

Dept. of ISE, DSATM, Bengaluru.

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**Number of participants:** 178 Participants of 3<sup>rd</sup> Sem. students.

**Vision:**

The main vision of Introduction to the Internet of Things 2.0 to Create an awareness on Sensors, Actuators, Cloud and Networking.

**Identification and addressing the GAP:**

Identifying the gap in practicing and implementing Sensors and Actuators in IoT. This has been rectified by assigning real time Project for a team of three and will be evaluated.

**Measurable outcomes:**

Upon completion of the I2IoT 2.0 course, students will be able to perform the following tasks:

- Explain the meaning and impact of Digital Transformation.
- Apply basic programming to support IoT devices.
- Explain how data provides value to Digital Business and Society.
- Explain the benefits of automation in the digitized world.
- Explain the need for enhanced security in the digitized world.
- Discover opportunities provided by digital transformation.



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### Department of Information Science & Engineering

<b>Event Name</b>	<b>Seventh National Conference On Convergence Of Science, Technology and Management - NCCSTM-2021(E-Conference)</b>
<b>Theme</b>	Paper Presentation Competition based on the student's final year projects
<b>Date</b>	10.07.2021
<b>Venue</b>	Department of ISE, DSATM (Online)

#### Objectives of the Program/ Event

- To create a space for the students to present the results of their scientific work carried out during execution of their final year project.
- To provide a way to practice the presentation skills among the students.
- To help the students develop the expertise needed to discuss their research in a clear and meaningful way.
- Learn how to answer specific questions and present their data to a range of individuals.

#### Purpose:

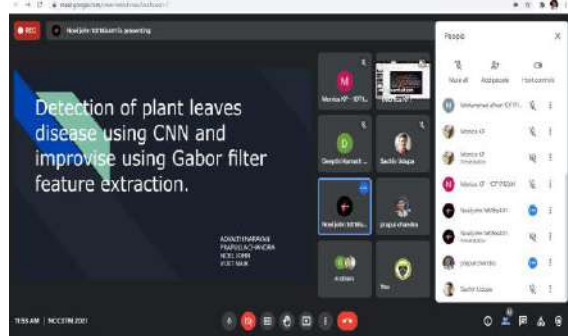
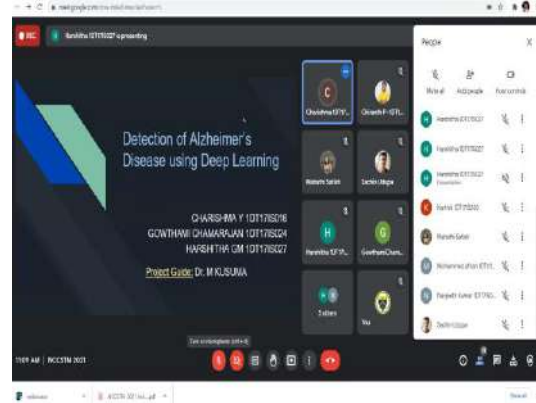
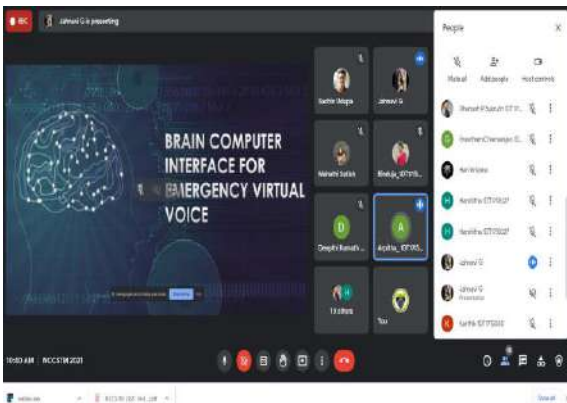
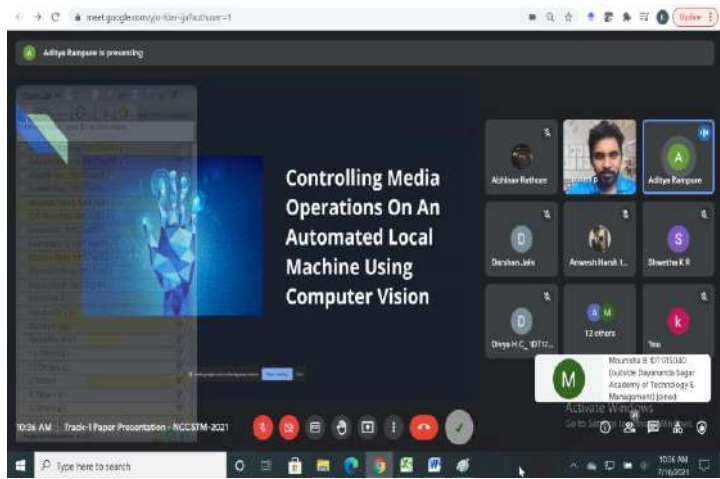
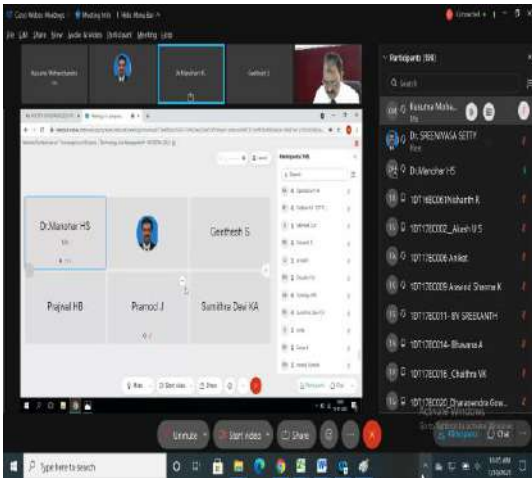
The National Conference is dedicated to provide a platform for expression of interest & cognitive thoughts and promote research discussing issues, exchanging of ideas and views towards their research findings during the course of conducting their final year projects.

#### About the Event:

A Paper Presentation Competition based on the student's final year projects was conducted on 10/07/2021 as a part of the Seventh National Conference on Convergence of Science, Technology & Management (NCCSTM-2021, E-Conference) at the Dept. of ISE, DSATM.

Best five projects were considered based on the Originality, Innovation, Technology, Applications, presentation and answering skills of the students. Prizes were awarded to the winners and certificates issued to all the student participants.

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**Evaluators:**

- Mr. Rohith Parameshwar, Lead Software Engineer, Quotient Technology Inc., Bangalore
- Mr. Sachin S S, Senior Software Engineer, Skellam.ai, Bangalore
- Mr. Vishnu H.S, Cloud Analyst, Oracle, Bangalore
- Mr. Sumanth R, Application Development Analyst, Accenture Solutions Pvt. Ltd, Bangalore

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**Number of participants:** All students of 8<sup>th</sup> semester, Department of ISE, DSATM participated.

**Vision:**

To encourage students to participate and engage with thought leaders and innovators to discuss topics on a deeper and more personal level.

**Measurable outcomes:**

The benefits of attending a conference are different for everyone. By attending a conference, individuals gain fresh perspective, develop a strong professional network, provides a platform for individuals to share their progress, hurdles they've come across, and techniques devised for solving them.



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### Department of Information Science & Engineering

<b>Event Name</b>	<b>National Level Inter College Project Competition-2021 Report</b>
<b>Theme</b>	Desire to build a strong base for practical problem solving in students as well as to build their R & D potential.
<b>Date</b>	03/07/2021
<b>Venue</b>	Department of ISE, DSATM (Online)

#### Objectives of the Program/ Event

- Creativity of students applied to solve development problems of our people and State through Science and Technology.
- Enrich collegiate education through finding solutions to real life problems.
- Improve understanding and develop methodology of solving complex issues.

#### Purpose:

- To promote student project programmes in a large number of educational institutions in various areas of Engineering.

#### About the Topic:

- Project competition has enriched collegiate education through finding solutions to real life problems. This has also improved the understanding and development of a methodology to solve complex issues.

National Level Inter College Project Competition-2021 is conducted on 03/07/2021 at Dept. of ISE, DSATM Under the guidance of Dr. Sumithra Devi. K.A, Dean academics and HOD, Dept. of ISE with the support of Dr. B.R. Lakshmikantha, Principal .

- Students of various Engineering colleges were participated in the event.
- External Industry Experts Evaluated the project.
- Best Prizes were awarded.

**Date: 03/07/2021 Time: 10.00am to 2.00pm**

Competition was inaugurated at 10.00 am, Dr. Sumithra Devi. K.A, Dean academics and HOD, Dept. of ISE, did welcome address, explaining the significance of the National Level Inter college Project Competition-2021. Dr. B.R. Lakshmikantha, Principal gave concluding remarks addressing related to National Level Inter college Project Competition-2021. Dr. Seemanthini K presented vote of thanks

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**External Evaluators:** 1.Mr Praveen H J,  
Founder & CEO,

Arcis Business Solutions, Bangalore

2.Mr.Praveen V,

Co-Founder and Managing Director,  
Embware Labs Pvt.Ltd, Hubli

3.Mr Shishir L ,

Senior Technical Support Engineer,  
Oracle Solution Services India Pvt Ltd.

4.Mr.Arindam Chowdhury,

Associate Software Engineer, Q2.com

5.Ms.Vijayalakshmi Desai,

Engineer III, American Express.

6.Mr.Vignesh J,

ML Engineer, Research Department, Infrd.ai

7.Mr.Anuraag Manvi,

Senior Back End and Machine Learning Engineer,  
Smart Desert Pvt.Ltd

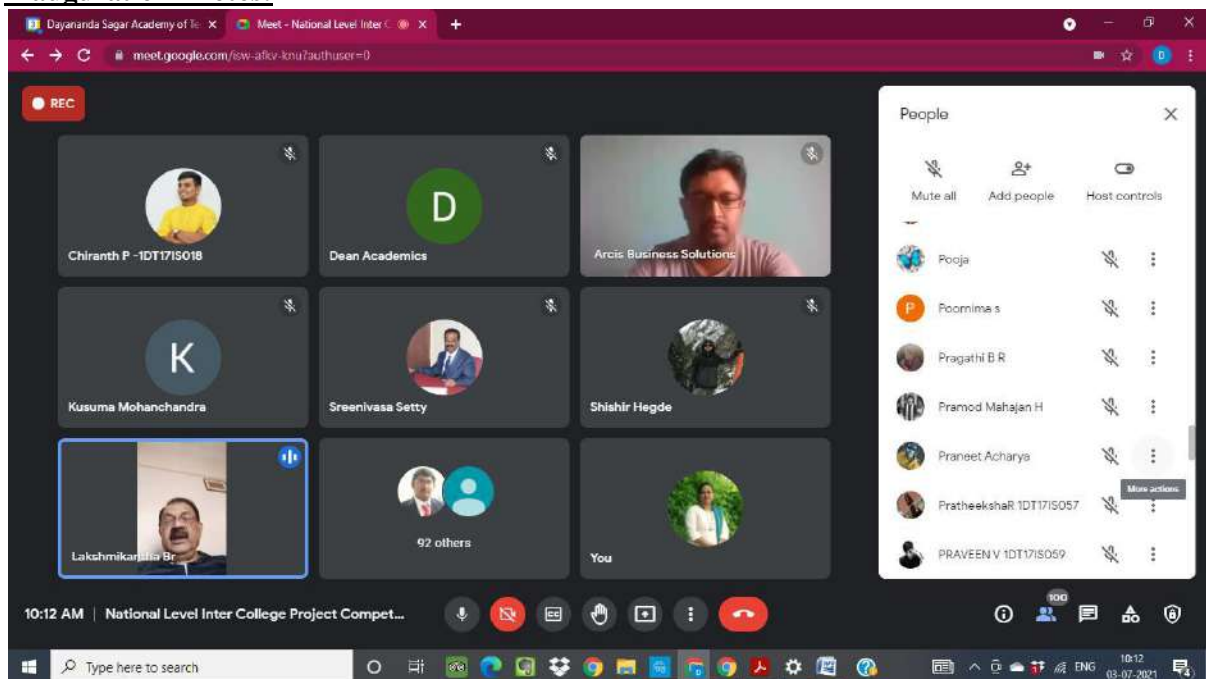
8.Mr Ananth Kumar,

Software Engineer, Infrd

9.Mrs.Sushma,

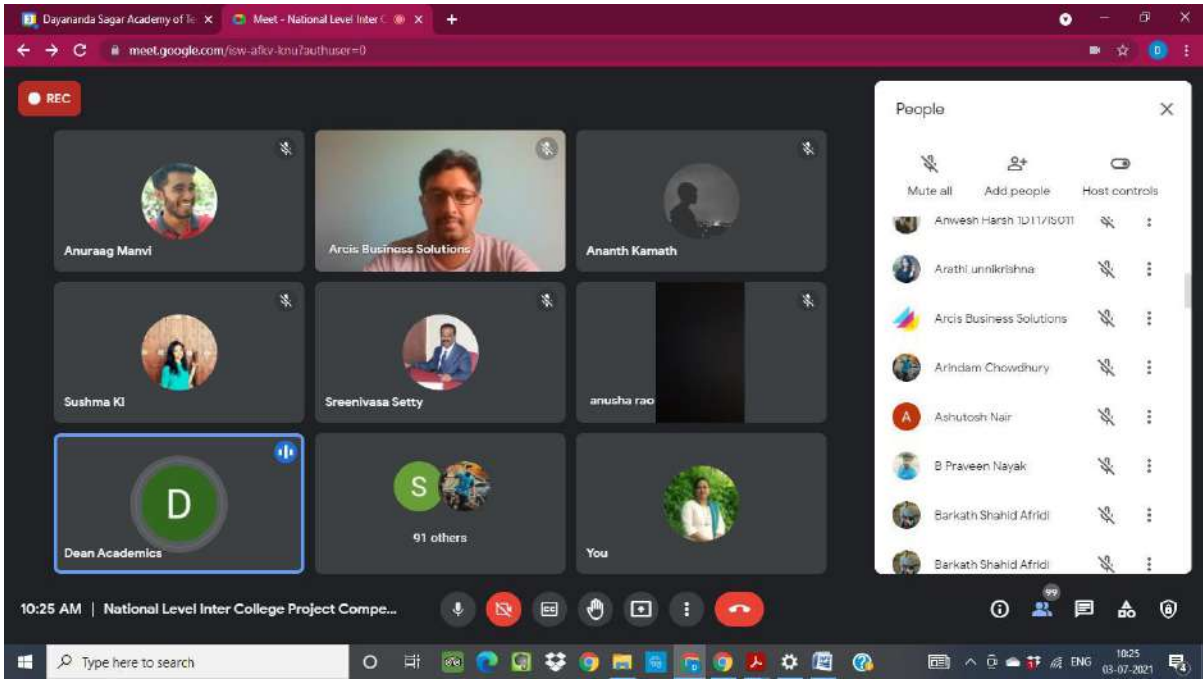
Software Engineer, Tech Mahindra

### **Inauguration Photos:**



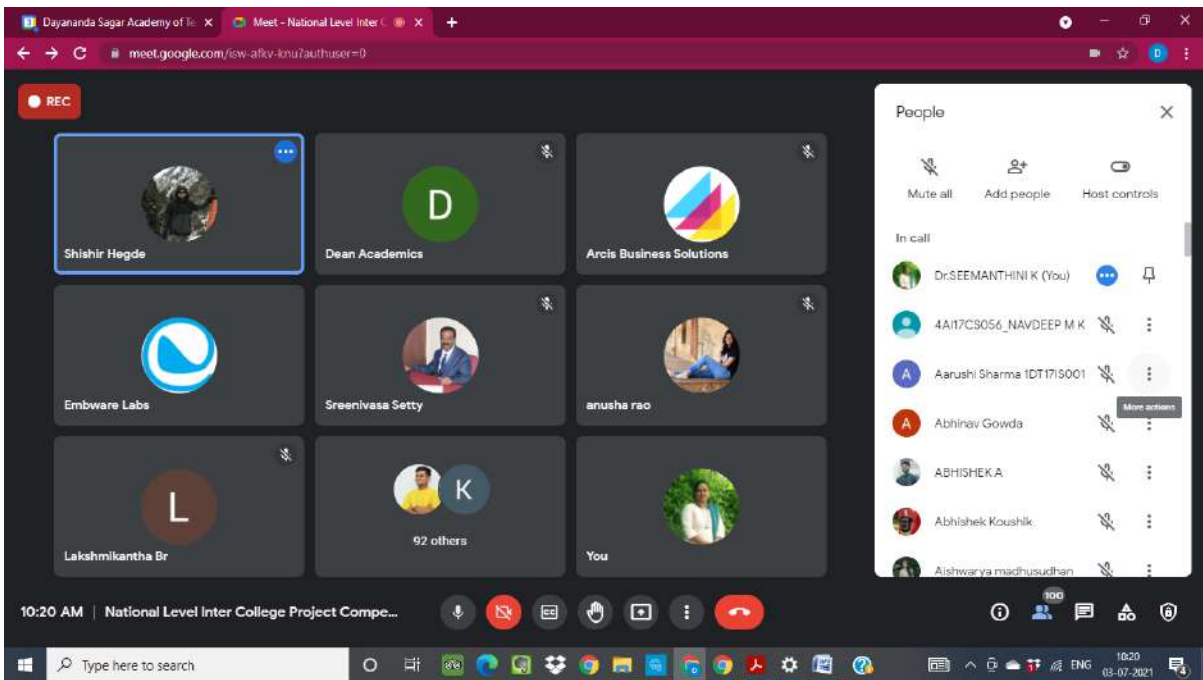
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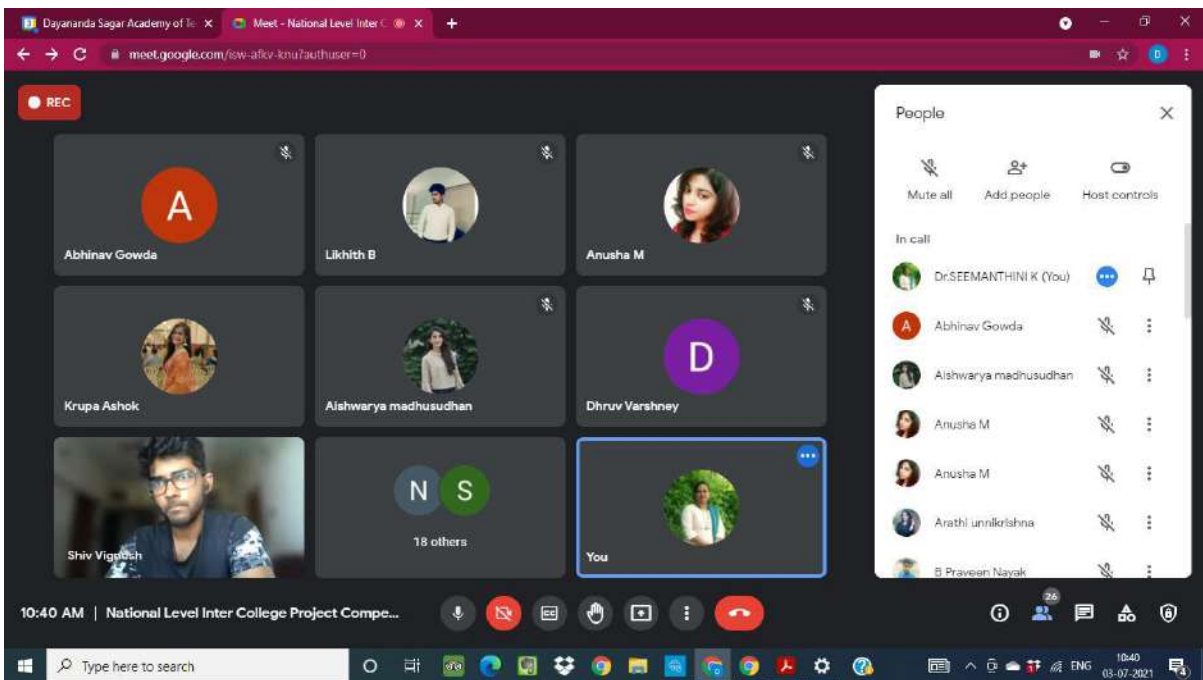


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**Evaluation Photos:**



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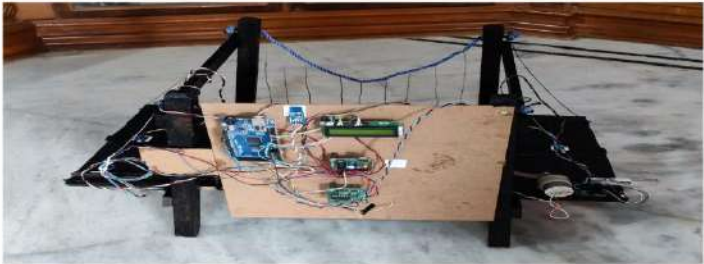
Dayananda Sagar Academy of I... Meet - isw-afkv-knu

meet.google.com/isw-afkv-knu?authuser=0

REC Anusha M is presenting

# MODEL IMAGES

## OVERVIEW OF THE MODEL



11:39 AM | National Level Inter College Project Compet...

Windows taskbar: Type here to search, system tray shows 11:39 AM on 03-07-2021.


Dayananda Sagar Academy of I... Meet - isw-afkv-knu Feedback Day 12 Session - ... DST Sponsored Faculty Deve... google forms - Google Search

meet.google.com/isw-afkv-knu?authuser=0

REC S Mahima Mahima is presenting

### Demo

You can see the demo of the project via the gif below.



12:03 PM | National Level Inter College Project Compet...

Windows taskbar: Type here to search, system tray shows 12:03 PM on 03-07-2021.

People list: Shiv Vignesh, S Mahima Mahima, 16 others, You, Krupa Ashok, Likhith B, Navyashree H D, Priyanka V L, Reekha, S Mahima Mahima, S Mahima Mahima Presentation.

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REC Anusha Shetty is presenting

meet.google.com/foa-pxsa-gsv?authuser=1

INTER COLLEGE PROJECT COMPETITION 2021  
 Demandsagar Academy of Technology & Management  
 A project on "FLIGHT DELAY PREDICTION BASED AVIATION, BIG DATA AND MACHINE LEARNING"  
 BGS Institute of Technology

Presented by:  
 ANUSHA K (4BW13IS002)  
 RESHMA MS (4RW178M024)  
 SANKIRTHI MN (4BW178R039)

Under the Guidance of:  
 Mr. Yogarajesh MG  
 Asst. Professor, Dept of CSE

People

- Mute all
- Add people
- Host controls
- reshma gowda
- REVANTH P N
- Sanmathi D
- Shifa Ali
- Shilpa S U
- Spoorthi o Shekar
- Spoorthi Gowda

12:39 PM | ISE Dept. Inter college project competition ...

REC Srinivas Kamath is presenting

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CANARA ENGINEERING COLLEGE  
 Benjanapadavu, Bantwal Taluk  
 Mangalore - 574219

PROJECT: BEE TRAVELLER

PROJECT GUIDE : PROF. RAJGOPAL K.T  
 TEAM NUMBER : CEC/CS/2020/P015  
 TEAM MEMBERS : GIRISH KINI N (4CB17CS034)  
 MAYUR MALLIYA (4CB17CS052)  
 SHRINIVAS KAMATH (4CB17CS059)  
 GAURAV PAI (4CB17CS033)

People

- Mute all
- Add people
- Host controls
- Dr. Thinkerishna J T (You)
- Anusha Shetty
- Arindam Chowdhury
- Gaurav Pai
- Girish Kini
- Girish Kini
- maya BS
- mayur malliya

11:56 AM | ISE Dept. Inter college project competition ...

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**Number of participants:** External Students Registration-54 Teams and  
Internal Students Registration- 23 Teams

**Vision:**Main objectives of the project idea competition were to improve quality of life of people, improving environment and contributing to economic development of nation.

**Identification and addressing the GAP:**

This competition has provided a platform to the budding engineers to showcase their creative and innovative project ideas to compete in the global competitive engineering field.

**Measurable outcomes:**

- It stimulate students and researcher to work on exciting project
- Develops best practices and demonstration of diverse project, new innovations, etc.
- It provides networking opportunity with industries that can help create breakthroughs



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### Department of Information Science & Engineering

<b>Event Name</b>	One Day Workshop(online) on “Mobile Application Development Using Android Tool”
<b>Theme</b>	Mobile Application Development using Android tool demonstration
<b>Date</b>	11 <sup>th</sup> June 2021
<b>Venue</b>	Department of ISE, DSATM (Online)

#### Objectives of the Program/ Event:

- Learn and understand the art of Android Programming
- Configure the Android studio to run the application
- Understand and implement the Android user interface functions

#### Purpose:

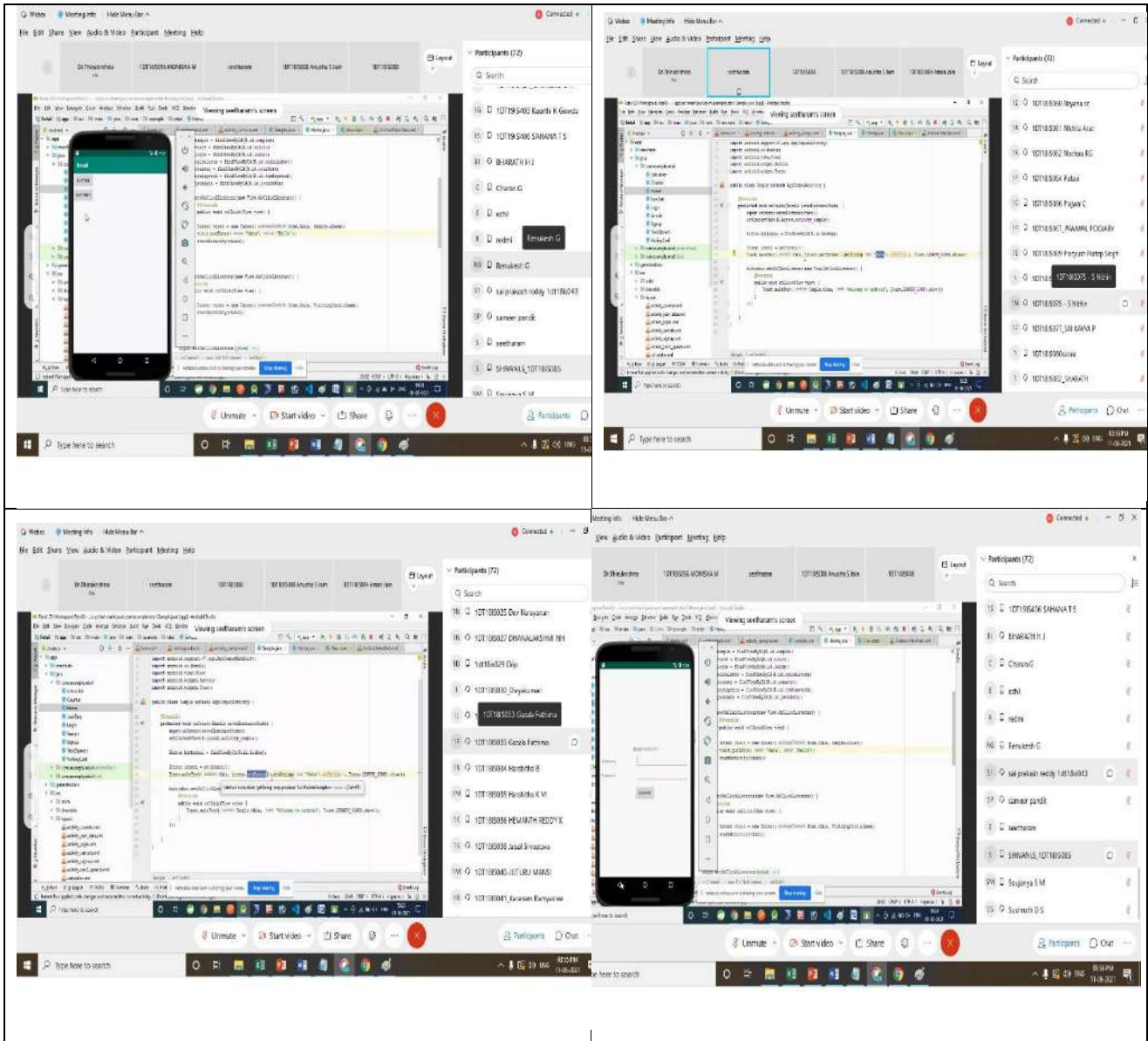
To achieve the practical implementations skills in the android tool which are currently using in Mobile Application Development.

**About the Topic:** This workshop is conducted for Sixth Semester students. The session was started introductory note on the expert Dr. B. Ezhilavan, Vei Technologies, Chennai by Dr. J. T. Thirukrishna, Associate Professor, Department of ISE, DSATM.

- Android Visual Studio Introduction
- Configure the Android studio to run the application
- Basics of Android Programming.
- Implement the Android user interface functions based on Mobile Applications.

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**Resource person/ participants** Dr. B. Ezhilavan, Vie Technologies, Chennai has graced the occasion as resource person for the session.

**Number of participants:** About 90 students of 6<sup>th</sup> semester, Department of ISE, DSATM participated.

**Vision:** Motivate the students to understand the practical implementations on Mobile Application Development using Android tool.

**Measurable outcomes:** Participants were able to

- Understand the concepts of Android Programming development
- Gain knowledge on configure the Android tools and run the application.
- Know the Android user interface functions.
- Knowledge (PO1), Design (PO3), Modern tools usage(PO5), PSO1 and Design and Development of Mobile Applications using Android visual studio.

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### Department of Information Science & Engineering

<b>Event Name</b>	<b>Workshop on Cyber security and Ethical Hacking (Online)</b>
<b>Theme</b>	Creating awareness on Cyber security and Ethical Hacking.
<b>Date</b>	03.11.2020 to 04.11.2020
<b>Venue</b>	Department of ISE, DSATM (Online)

#### Objectives of the Program/ Event

- Addressing the importance on Cyber security
- Creating awareness on Ethical Hacking
- Filling the gap in the subject- Information and Network Security by conducting real time hands on workshop on Cyber Security and Ethical Hacking
- To encourage students who would like to take up a career in cyber security.

#### Purpose:

To educate the students on protecting their computer and personal information and how to stay safe from various cybercriminals scouring the web for potential targets

#### About the Topic:

This workshop will provide hands on exposure to implement cyber security and Ethical Hacking. Moreover, the workshop explores the skills needed to protect networks, secure electronic assets, prevent attacks, ensure the privacy of data, and build secure infrastructure. Students will have access to the latest research and best practices from Reverse Engineering. The course material is concise, relevant, and designed specifically for the students in today's cyber workforce.

#### Day 1:03.11.2020

- **Basics of Cyber Security**  
The fundamentals of hacking, Capture the flags, Bug bounties etc that are required for one to pursue his Information Security career were clearly explained. The Certifications to take up, the bridging of gap between universities and the placements and other important aspects were spoken.
- **Kali Linux**  
The students were introduced to a Hackers Operating System named "Kali Linux", they were guided how to use it and also taught the basic command line that is required for the attacks.
- **Operating System Virtualization**  
The usage of VMWare Player and Virtual Box for running multiple Operating Systems in a single physical machine were demonstrated with the vulnerable

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machines designed for hacking. The basic problems with the network adapters (Bridged, NAT connections) were explained, with the concepts.

- **Phishing Attacks**

Phishing is the fraudulent attempt to obtain sensitive information or data, such as usernames, passwords and credit card details, by disguising oneself as a trustworthy entity in an electronic communication. The students were demonstrated how a hacker would use site cloning techniques to create a similar page for any website (phishing page), and steal the credentials of the user without his knowledge. This gives them awareness about it and also technical knowledge how one works.

- **Malwares**

Malware is any software intentionally designed to cause damage to a computer, server, client, or computer network. A wide variety of malware types exist, including computer viruses, worms, Trojan horses, ransomware, spyware, adware, rogue software, wiper and scareware. [www.reverseengineeringinfosec.com](http://www.reverseengineeringinfosec.com).

The students were given an insight on the malwares, and also performed a demonstration on how powerful a Trojan named **BEAST** could be, to hack into the victim's system.

- **Smartphone Security**

The students were explained about their smartphone security needs and actions. The concept of smartphone hacking with the permissions that we initially give to any third-party application that we install could be critical. They were introduced to one such app named "Mobile tracker" which could be used to hack any android mobile.

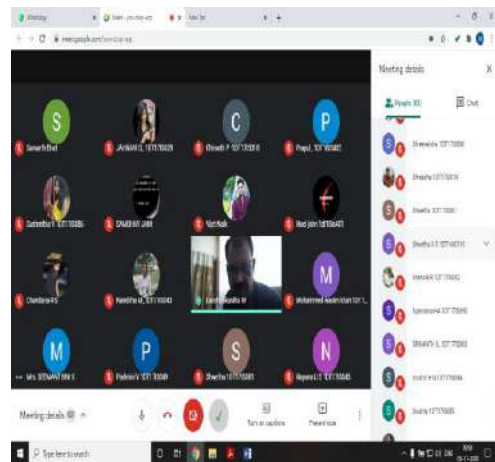
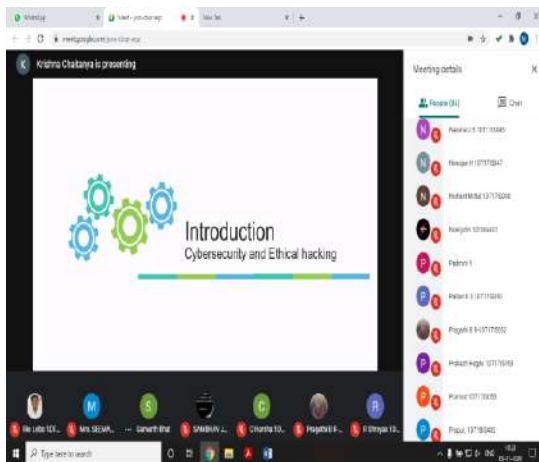
- **Windows Auth Bypass**

Bypassing is an art of deviating the login or any kind of security entrance into the system to directly access the data without entering the security token like passwords or PINs.

The students were exposed to a Forensics tool called **KON-BOOT**. They learnt how to bypass the login of Windows by booting into the software.







## Day 2: 04.11.2020

- Linux Auth Bypass**  
 The students learnt the manual way of cracking the Linux Authentication using the Ubuntu distribution. They were exposed to the weakness of Linux to manually code and change the password using the **terminal commands**. They also learnt the mounting and **remounting** process.
- Line of Defense**  
 The Blue team concepts of Hacking i.e. the defence on how a cyber-attack could be stopped were explained. Various defensive concepts like setting up our own Firewall using the Linux **IP Tables** and setting up a trap for the hackers to analyse their every movement using a concept of Honeypot using the tool **Pent Box** were demonstrated.
- Offensive Hacking**  
 The process / methodology that should be followed to hack into any vulnerable machine were clearly explained, with real live analogies. **Scanning the target** using nmap, [www.reverseengineeringinfosec.com](http://www.reverseengineeringinfosec.com)  
**Finding the vulnerabilities** using any kind of vulnerability analysis software's were detailed. The websites like CVE Details were shown. Practical use of Nikto to find web application vulnerabilities were demonstrated.  
**Exploiting** the target using exploitation frameworks like metasploit were demonstrated. A live Windows machine was hacked using the Eternal Blue Vulnerability which was used for the recent ransomware "WannaCry".  
**Maintaining Access** concepts using a backdoor or migrating the hacking process to explorer.exe to maintain the access to the hacked machine was explained.  
**Clearing the Tracks** like the deletion of any backdoors installed, Clearing the IP address used were annotated.
- VPN (Virtual Private Network)**  
 Students were demonstrated on how to create a Virtual Private Network. The Concepts of being anonymous on internet using VPNs, Proxies, Tor Browser etc were detailed.  
 Connecting to any external VPN network using the tool **Openvpn** was demonstrated to access the machines outside the reach of our internal network.
- Wireless Hacking**

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Hacking into a WIFI by capturing the handshakes and breaking it were demonstrated using the automated tool named **Wifite**. Also, they were advised not to use public WIFI, and the dangers of using it.

- **Key Logger**

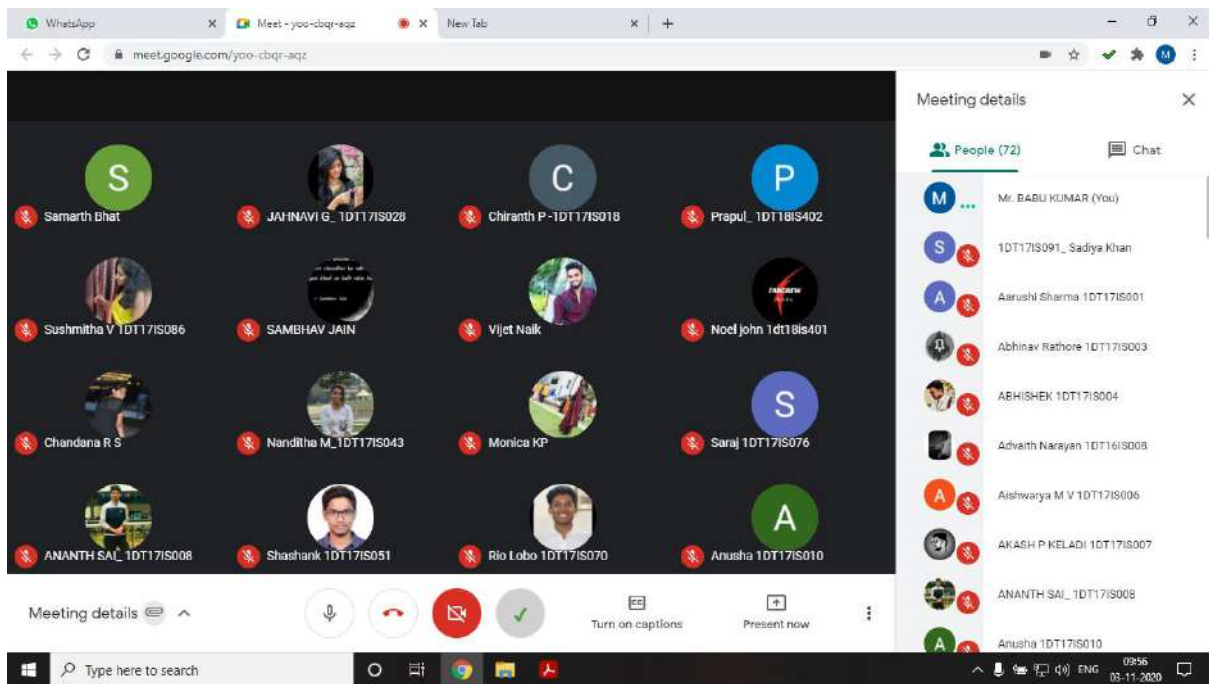
A Keylogger is an application that records every key stroke entered by the user. The students were introduced to keylogger, and also learnt how to use one. They were told about the dangers of it, and not to fall prey to such attacks.

- **Encryption & Decryption**

Students were explained what is encryption & decryption, and the various encryption techniques. They were demonstrated a tool named **Openssl** to easily and securely encrypt the files in Kali Linux. [www.reverseengineeringinfosec.com](http://www.reverseengineeringinfosec.com)

### Hacking into a Demo Vulnerable Machine

At the ending of the session, the students were exposed to a real-life vulnerable demo machine, in which all the concepts covered were used to hack into it. This builds the interest and passion in them to maintain the security of systems.



### Resource persons:

**Mr. Samarth Bhatt**

Technical Director,

RevEngg Technology, Bengaluru.

**Number of participants:** About 80 students of 7<sup>th</sup> semester, Department of ISE, DSATM participated.

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**Vision:**

The main vision of National Cyber and Ethical Hacking is to protect one's data and critical infrastructure from cyber related threats.

**Identification and addressing the GAP:**

Identifying the gap in practicing and implementing cyber security and ethical hacking. This has been rectified by assigning real time cyber security and ethical hacking assignment for a team of two and will be evaluated. And Report is prescribed format is collected

**Measurable outcomes:**

The students are given access to three such real-life vulnerable machines, into which they can legally hack into and practice their skills. Based on each step, they are given a challenge which has to be cracked. The complete report of the process they followed needs to be documented and submitted.



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(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)  
Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082  
**Department of Information Science & Engineering**  
**Accredited 3 years by NBA, New Delhi, Validity: 26-07-2018 to 30-06-2021**



<b>Event Name</b>	<b>Training session on Ethical Hacking</b>
<b>Theme</b>	Cyber Security and Ethical hacking
<b>Date</b>	05/01/2021
<b>Venue</b>	<b>ISE Lab-1, 4<sup>th</sup> floor 'A' block</b>

**Objectives of the Program/ Event:** Ethical hacking session is to introduce the courses and ethical hacking experiments offered by Centre of excellence (COE)-Cyber Security.



**Purpose:**

- To achieve professional skills in cyber security among the faculty members of DSATM.
- Introduction to advanced software and hardware tools supported by Operating system which can carry out various industry related cutting-edge standard based cyber security activities.

**About the Topic:** The session was started by introducing various aspects about hacking. Concepts such as hacking, hacker, ethical hacking was clearly illustrated with real-life examples. Furthermore, application and usage of Kali Linux has been demonstrated, which was an operating system exclusively designed for hacking purposes. Hands-on task was assigned to participants to get root access of the COE machine 1. Participants were able to realize the image steganography concepts which is used to hide the contents inside the image. At the end of the session password hidden in image was successfully hacked by participants and got the root access to COE machine 1.

**Resource person/ participants** Mr. Samarth B Bhat, Technical Director,. REVENGG Infosec, Bangalore has graced the occasion as resource person for the workshop.

**Number of participants:** About 17 faculties of various department were participated.

**Vision:** To identify security vulnerabilities which can then be resolved before a malicious attacker has the opportunity to exploit them. Train the faculties through hands-on experiments

**Measurable outcomes:** Participants were able to understand

- Getting familiar with Linux command line
- Extracting data from Steganographic image
- Learning data exfiltration techniques
- Getting SSH access.





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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**  
(Accredited 3 years by NBA, New Delhi (Validity : 26-07 -2018 to 30-06-2021))



<b>Event Name</b>	<b>PROJECT SYMPOSIUM</b>
<b>Theme</b>	<b>Project Symposium is intended to enrich the knowledge of student's and showcase the projects that are conducted during their studies.</b>
<b>Date</b>	<b>19-12-2020</b>
<b>Venue</b>	<b>'A' Block Room Numbers 301, 303, 308 and 310</b>

**Objectives of the Program/ Event**

1. To identify and understand various aspects of theme and problems.
2. To develop the ability in decision making and judgment regarding problem definition.
3. To ensure inputs from industrial experts, for further development of project.



**Purpose:** Project symposium allows students to enhance their broad understandings of a topic or a problem with literature study on the project work.

**About the Topic:** Project symposium provides an excellent platform to the students in showcasing their research orientation towards their desired domain.



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**Resource person/ Evaluators:**

1. Mr. Samarth, Technical Director, Reveng Info Sec, Bangalore.
2. Mr.Mahesh.V, Chairman-Sub Committee Information Technology, Karnataka Small Scale Industries Association (kassia), Vijayanagar, Bangalore.
3. Mr.Jai Kissan, Software Developer, Wam Tech Systems, Vijayanagar, Bangalore.
4. Mr.Prince Raj, Master Technical Trainer, Ethnus consultancy services private limited, Bangalore.
5. Ms. Amulya Muralidhar Business Consultant/ Risk Analyst Ernst and Young, Bangalore (Alumnae).
6. Mr. Vinay P, Java Developer, Zycus India Private Limited, Bangalore (Alumnae).

**Number of participants: 7<sup>th</sup> semester, 86 students**

**Vision:** To ensure quality project implementation with research blend.

**Identification and addressing the GAP:** Initiating the research practice by doing literature survey on related project topic and presenting the literature survey.

**Measurable outcomes:** Symposiums enhance the technical knowledge of students and provide them a platform to exhibit their communication skills and helps students to identify and understand the various aspects of their domain which provides opportunities for them to develop their versatility and charisma in the divergent facet of their growth.



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## Department of Information Science & Engineering

<b>Event Name</b>	<b>Workshop on Cyber security and Ethical Hacking (Online)</b>
<b>Theme</b>	Creating awareness on Cyber security and Ethical Hacking.
<b>Date</b>	03.11.2020 to 04.11.2020
<b>Venue</b>	Online

### Objectives of the Program/ Event

- Addressing the importance on Cyber security
- Creating awareness on Ethical Hacking
- Filling the gap in the subject- Information and Network Security by conducting real time hands on workshop on Cyber Security and Ethical Hacking
- To encourage students who would like to take up a career in cyber security.

### Purpose:

To educate the students on protecting their computer and personal information and how to stay safe from various cybercriminals scouring the web for potential targets

### About the Topic:

This workshop will provide hands on exposure to implement cyber security and Ethical Hacking. Moreover, the workshop explores the skills needed to protect networks, secure electronic assets, prevent attacks, ensure the privacy of data, and build secure infrastructure. Students will have access to the latest research and best practices from Reverse Engineering. The course material is concise, relevant, and designed specifically for the students in today's cyber workforce.

### Day 1:03.11.2020

- **Basics of Cyber Security**  
The fundamentals of hacking, Capture the flags, Bug bounties etc that are required for one to pursue his Information Security career were clearly explained. The Certifications to take up, the bridging of gap between universities and the placements and other important aspects were spoken.
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- **Operating System Virtualization**  
The usage of VMWare Player and Virtual Box for running multiple Operating Systems in a single physical machine were demonstrated with the vulnerable machines designed for hacking. The basic problems with the network adapters (Bridged, NAT connections) were explained, with the concepts.
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## Department of Information Science & Engineering

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## Department of Information Science & Engineering

### Day 2: 04.11.2020

- **Linux Auth Bypass**

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- **Line of Defense**

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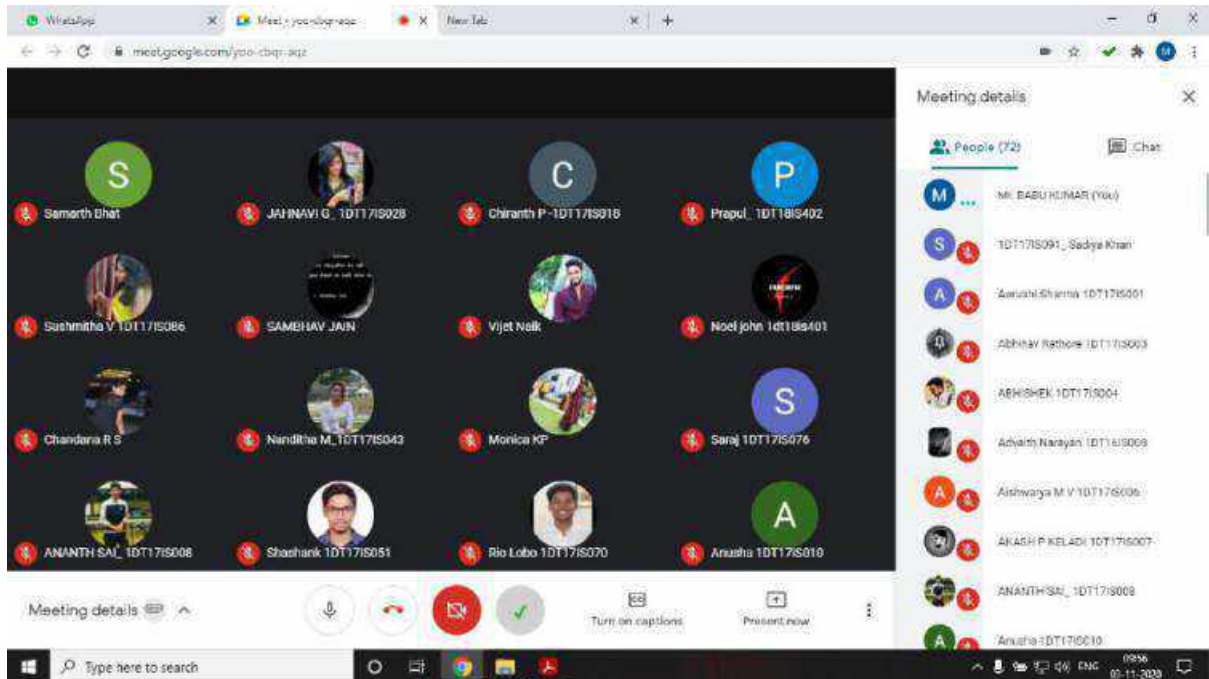
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## Department of Information Science & Engineering

### Hacking into a Demo Vulnerable Machine

At the ending of the session, the students were exposed to a real-life vulnerable demo machine, in which all the concepts covered were used to hack into it. This builds the interest and passion in them to maintain the security of systems.



### Resource persons:

**Mr. Samarth Bhatt**

Technical Director,

RevEngg Technology, Bengaluru.

### Vision:

The main vision of National Cyber and Ethical Hacking is to protect one's data and critical infrastructure from cyber related threats.

### Identification and addressing the GAP:

Identifying the gap in practicing and implementing cyber security and ethical hacking. This has been rectified by assigning real time cyber security and ethical hacking assignment for a team of two and will be evaluated. And Report is prescribed format is collected

### Measurable outcomes:

The students are given access to three such real-life vulnerable machines, into which they can legally hack into and practice their skills. Based on each step, they are given a challenge which has to be cracked. The complete report of the process they followed needs to be documented and submitted.

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## Department of Information Science & Engineering

<b>Event Name</b>	<b>Workshop on Business Model Development(Online)</b>
<b>Theme</b>	Creating awareness on Entrepreneurship and developing business model.
<b>Date</b>	16.10.2020 to 17.10.2020
<b>Venue</b>	Online

### Objectives of the Program/ Event

- Creating awareness on Entrepreneurship
- Filling the gap in the subject-Management and Entrepreneurship for IT by conducting real time practice on business development
- Practicing the development of successful business model.

### Purpose:

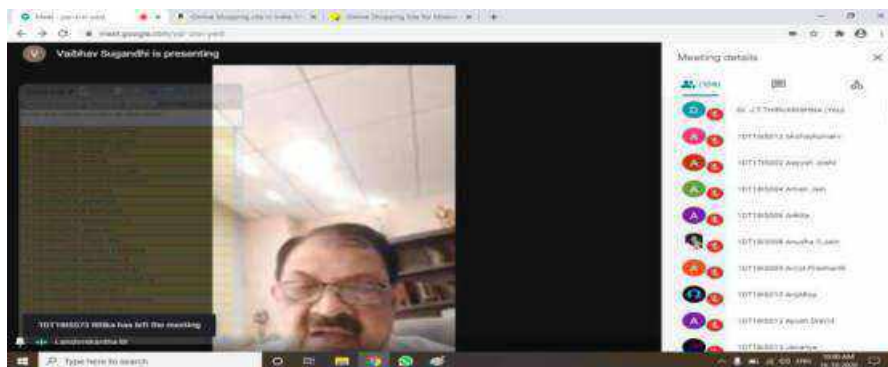
Imparting interest among the students to become Entrepreneur

### About the Topic:

A business model that describes the rationale of how an organization creates, delivers, and captures value, in economic, social, cultural or other contexts. The process of business model construction and modification is also called business model innovation and forms a part of business strategy in the business world.

### Day 1:16.10.2020

- Inauguration and Introduction session.
- Problem Areas and Team Foundation.
- Defining the Problem and Introduction to business model.
- Understanding your Customers and Value Propositions.
- Reaching your Customers and managing relationships.
- Preparing a business model for our business.
- Brainstorming session.



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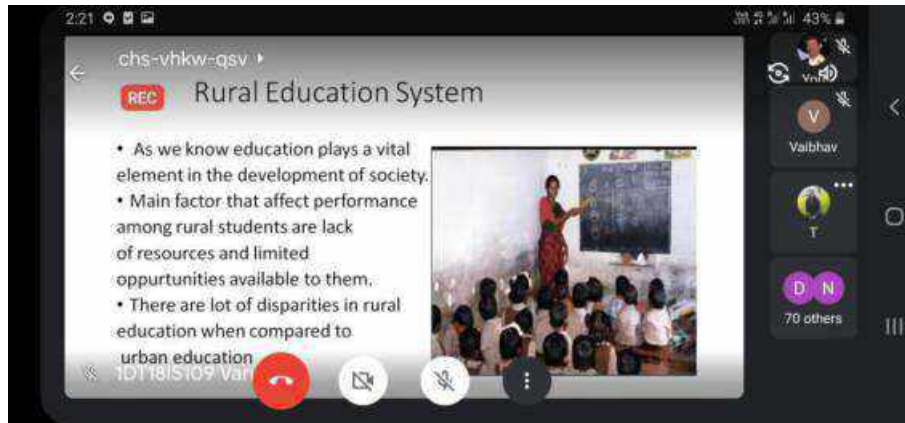
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## Department of Information Science & Engineering

### Day 2: 17.10.2020

- Defining the key business requirements and competitive advantages.
- Defining the business partners and the cost parameters.
- Business Models Presentation by Teams.
- Valedictory.



### Resource persons:

#### Praveen H J

Founder & CEO

ARCIS Business Solutions, Bengaluru.

#### Shivayogi Goudar

Business Development Manager

ARCIS Business Solutions, Bengaluru.

### Vision:

Understanding about business culture and creating insight about Entrepreneurship.

### Identification and addressing the GAP:

Identifying the gap in practicing on business model development and Entrepreneurship skill development. This has been rectified by assigning real time business model development and presenting the business model as a team for the evaluation.

### Measurable outcomes:

Evaluation of business model presentation.

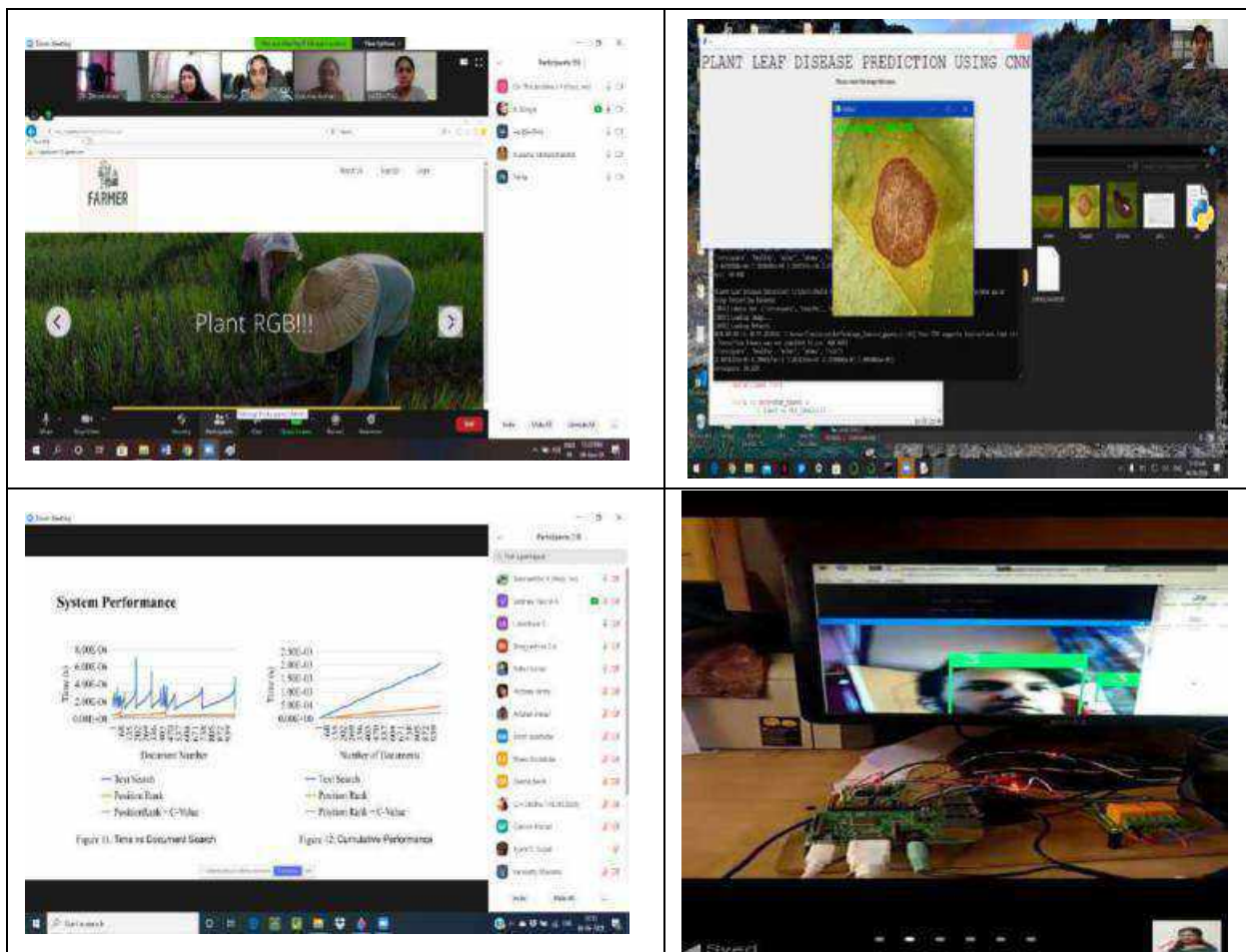
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<b>Event Name</b>	<b>INTER COLLEGE PROJECT COMPETITION</b>
<b>Theme</b>	Enhance the knowledge of student and motivate them to compete in the global competitive engineering field.
<b>Date</b>	06/06/2020
<b>Tools Used</b>	As the impacts novel coronavirus (COVID-19) pandemic situation project competition conducted via Zoom Cloud Meeting online platform.

### Objectives of the Program/ Event:

- To provide networking opportunity with industries that can help create breakthroughs.
- To relate the functioning of industry while working on project and understand how does.



**Purpose:** Technical project competition allows students to practice soft skills while reinforcing their engineering knowledge.

**About the Topic:** The goal of this competition is to prepare the future generation of engineers not only problem solvers but to be innovative leaders and responsible citizens.





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## Department of Information Science



### Resource person/ participants:

1. **Mrs. Keerthishree**  
Lead Quality Engineer, Earnest, San Francisco , California
2. **Mr. Vinay Kundur**  
Principal Electrical Design Engineer  
Skyworks Solutions Inc, San Jose, California
3. **Mrs. Deepa Byadgi**  
DevOps Engineer, Scientific Games  
Sydney, Australia
4. **Mr. Sudheendra**  
Director, Datalore Labs  
Bangalore
5. **Ms. Murugiaya Ramashini**  
Faculty of Integrated Technologies  
Universiti Brunei Darussalam  
Brunei Darussalam
6. **Mr. Thejas G R**  
Software Engineer ,Accenture , Bangalore
7. **Mr. Vikas V Shastry**  
Software Engineer ,Lam Research, Bangalore
8. **Ms. Ksheeraja P**  
Programmer Analyst Trainee, Cognizant, Bangalore
9. **Mr. Rahul Kumar**  
Implementation consultant  
River Sand India Technologies India Private Limited

**Number of participants:** External Students Registration-33 Teams and  
Internal Students Registration- 30 Teams

**Vision:** Furnishes to the students to provide Idealistic view of the desired outcomes to be produced for the business after successful project completion.

**Identification and addressing the GAP:** Adopting the current technologies and modern tools for designing and modelling engineering activities.

**Measurable outcomes:** Helps to promote intercultural and inter disciplinary dialogue and cooperation, through the involvement of students, teachers, and industry.



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## Department of Information Science



<b>Event Name</b>	<b>FDP ON ADVANCED BLOCKCHAIN TECHNOLOGY</b>
<b>Theme</b>	Blockchain technology is suitable for decentralized and transactional sharing of data across a large network of untrusted participants.
<b>Date</b>	28.01.2020 to 01.02.2020
<b>Venue</b>	'A' Block , 403 lab

### Objectives of the Program/ Event:

This course aims to provide conceptual understanding of the function of Blockchains as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.



**Purpose:** Blockchain technology and terms related to Blockchain such as Bitcoin and Crypto-currency. Then importance of cryptography and its types (Symmetric and Asymmetric). Also focused on privacy, security and digital signatures used in cryptography. The transaction concept with Paytm examples has been elaborated.

### About the Topic: Topics Covered are:

- Data structure used in Blockchain Technology linked list concept and Block details through tools.



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### Department of Information Science

- Also certain applications such as Voting, E-Governance, Digital Currencies, Land record, Medical records and usecases of Blockchain concepts discussed in detail.
- Nextly concentrated on Ethereum is an open source, public, blockchain-based distributed computing platform and operating system featuring smart contract (scripting) functionality.
- Provide an Insight on Public Vs Private Blockchain.

**Resource person/ participants: Chief Guests** :Dr. P. Sampath kumaran, Joint Director & Head, Materials Technology Division, Central Power Research Institute (CPRI), Bangalore.

**Resource Person:** Pranav, Innovation-driven Entrepreneurship, Trakinvest – Bangalore.

**Number of participants:** 30 participants from various institutions including faculty members and research scholars.

**Vision:** Blockchain have good potential to transform the logging and management of transactions in different application areas.

**Identification and addressing the GAP:** Emerging technology but yet to be implemented in India.

**Measurable outcomes:** This benefit significantly by improved operational efficiency, enhanced security, and transparency offered by blockchain implementation.



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## Department of Information Science



<b>Event Name</b>	<b>OUTCOME BASED EDUCATION AND NBA ACCREDITATION PROGRAMME</b>
<b>Theme</b>	To create awareness among faculty members about Outcome Based Education System and NBA Accreditation process.
<b>Date</b>	23/12/2019 to 28/12/2019
<b>Venue</b>	'B' Block Seminar hall, 404 Room no.

### Objectives of the Program/ Event:

- To create awareness among faculty members about Outcome Based Education System.
- To understand the implementation of OBE in NBA Process.
- To use various innovative teaching learning methods using pedagogical approaches.



**Purpose:** To give a complete outline of OBE and NBA Accreditation process from criteria 1 to criteria 10, and NBA Co-ordinators of the Accredited departments of DSATM had co-ordinated showing all the hardcopy of documents.



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**About the Topic: Topics Covered are:** The following are the topics covered during the programme,

- General discussion of SAR & Pre-qualifier
- Criteria –1 ( Discussion about framing Vision, Mission, PEO's of the department and the Institution)
- Criteria –2 and Rubrics Framing
- Criteria –3 (Discussion about CO writing)
- Criteria –4 (Discussion about calculation of student Performance)
- Criteria –5(Discussion about the calculation of Student Faculty Ratio, Faculty cadre Proportion, Faculty Qualification and retention), Discussions about Teaching methodology and Research.
- Criteria –6 about Infrastructures
- Criteria –7(Discussion about identification of gap in the curriculum and action taken for the same). Discussion about analysis of proposed action of PO PSO attainment levels. And finally with Criteria –8, Criteria –9 & 10.

**Resource person/ participants:** Chief Guest:Manjunatha K, Professor and Regional Director, VTU Regional Center, Coordinator,VTU- PG Center, Mysuru.

**Resource Person:** Dr. Varaprasad G, Professor, Department of CSE, BMSCE, Bangalore, Dr. P Jayarekha, Professor, Department of ISE, BMSCE, Bangalore, Dr. H V Saikumar Retd. Professor, Department of EEE, NIE, Mysore BMSCE and Dr. Sumithra Devi K A, Program Coordinator and Dean Academics,

**Number of participants:** 50 participants from various institutions faculty members.

**Vision:** This Program addresses the need to enhance the knowledge about the Outcome Based Education (OBE) and its implications in teaching, learning process and evaluation.

### Measurable outcomes:

- Participants of this programme had given progressive feedback and reached to their expectations.
- To use various innovative teaching learning methods using pedagogical approaches.



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## Department of Information Science

<b>Event Name</b>	<b>PROJECT SYMPOSIUM</b>
<b>Theme</b>	<b>Project Symposium is intended to showcase the type of projects that students conduct during their studies</b>
<b>Date</b>	<b>27-11-2019</b>
<b>Venue</b>	<b>'A' Block Seminar hall 4<sup>th</sup> floor</b>

### Objectives of the Program/ Event

1. To identify and understand various aspects of theme and problems.
2. To develop the ability to decision and judgment regarding a problem.



**Purpose:** Technical project symposium allows students to enhance their broad understandings of a topic or a problem.

**About the Topic:** The ability to successfully execute projects is what drives the realization of intended benefits.

**Resource person/ participants:** Prof. S.K. Muttagi, M.Tech., (Ph.D), Scientific Officer, Vision Group of Science and Technology, Department of Science and Technology, Information Technology & Bio-Technology, Government of Karnataka, Bangalore.



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## Department of Information Science

### Evaluators:

1. Goutham N, Director, Product Engineering, Ethnus Technologies Pvt Ltd, Bangalore.
2. Sudheendra, Director, Datalore labs Pvt Ltd, Bangalore.

**Number of participants: 8<sup>th</sup> semester, 113 students**

**Vision:** It provides a national platform for students to showcase their talents in hardware, software and paper presentation competitions, displaying cutting edge technology and research.

**Identification and addressing the GAP:** Adopting the current technologies and modern tools for designing and modelling engineering activities.

**Measurable outcomes:** Symposiums enhance the technical knowledge of students and provide them a platform to exhibit their talents. It helps students to identify and understand the various aspects of their domain which provides opportunities for them to develop their versatility and charisma in the divergent facet of their growth.



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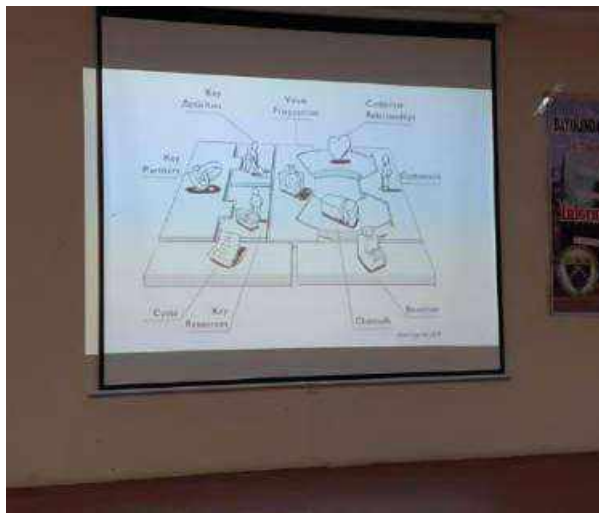
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## Department of Information Science

<b>Event Name</b>	Ideation Workshop (Hands-On Training To Generate And Validate Business Ideas)
<b>Theme</b>	The event focused on developing ideation and innovation skills.
<b>Date</b>	04/10/2019
<b>Venue</b>	4 <sup>th</sup> floor Seminar Hall 'B' Block



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**Objectives of the Program/ Event:** Ideation workshop is a process for developing and scaling ideas. The program consisted of an ideas framework that helped participants, first get an idea, second validate them, third develop them and the last stage, and test them in a real world environment.

**Purpose:** To make the students to contemplate as entrepreneurs.

**About the topic:** This workshop was designed to train the participants on the ideas, framework so as to harness their innovation skills and create solutions that positively impact the target community with the use of technology.

**Resource person/ participants:** Mr. Praveen H J, Founder & CEO of Arcis Business Solutions/all the staff members and 5<sup>th</sup> semester Students of department of ISE.

**Vision:** Understand social challenges and analyse the context

**Address of the GAP:** To help students to actively take part in the team work, enhance their communication skills and creative ideas to develop their business model.

### Measurable outcomes:

- Identify business opportunities where other people see problems.
- Screen new technologies and quickly understand how they can be applied to solve a problem.
- Use creative tools and techniques to generate great ideas.
- Build new innovative business models.
- Make rapid prototypes and use visual communication to create a great presentation of the idea.



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## Department of Information Science

<b>Event Name</b>	<b>ROBO CLUB</b>
<b>Theme</b>	To develop the students to participate in different technical competitions.
<b>Date</b>	20/08/2019
<b>Venue</b>	4 <sup>th</sup> floor Seminar Hall 'A' Block



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#### Objectives of the Program/ Event:

Robo Club stands as an epitome of marvel. It not only acts as a platform for zealous students to hone their skills in the field of electrical, electronics, computer and mechanical, but also prepares them for various national level competitions by encouraging them to participate.

**Purpose:** To make the students to participate in different technical competitions.

**About the topic:** The strength of the club lies in student members as they highly repute the club. Young engineers have top notch robotic clubs where they can design and build virtually anything they can think of. Through this program, our students get to learn and build the current trending things and various new topics related to robotics and present them in the technical competitions. We are equipped with adequate current trending hardware and software kits.

**Resource person/ participants:** Mr. Suresh Satyanarayana, Intel technologies/all the staff members and 5<sup>th</sup> semester Students of department of ISE.

**Vision:** Furnishes to the students in the need of electronic enthusiasts in creating an environment which is driven by innovation and implementation.

**Address of the GAP:** Adopting the current technologies and modern tools for designing and modelling engineering activities.

**Measurable outcomes:** Explanation and demonstrations of individual projects were carried out by the students of the club. All the working models of the project were displayed and the inspection was done by the chief guest.



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<b>Event Name</b>	<b>FDP ON BLOCKCHAIN TECHNOLOGY</b>
<b>Theme</b>	Blockchain technology is suitable for decentralized and transactional sharing of data across a large network of untrusted participants.
<b>Date</b>	28.06.2019 to 02.07.2019
<b>Venue</b>	'A' Block , 403 lab

### Objectives of the Program/ Event:

This course aims to provide conceptual understanding of the function of Blockchains as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.



**Purpose:** Blockchain is an emerging platform for developing decentralized applications and data storage, over and beyond its role as a platform for cryptocurrencies. The basic tenet of this platform is that it allows one to create a distributed and replicated ledger of events, transactions, and data generated through various IT processes with strong cryptographic guarantees of tamper resistance, immutability, and verifiability.

**About the Topic: Topics Covered are:**



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- Highlighted how the investment is made in the market enlightened the how safely managerial skills are adapted to do investment.
- Brief introduction on blockchain technology.
- Ethereum blockchain platform and how it is differentiated from bitcoin.
- ICO's- Brief Introduction
- Introduction to Deployment of smart contracts
- DAI coin and Makerdao, Private versus Public blockchain, HyperLedger Introduction
- Initial Exchange Offering, Other blockchain technology and innovations

**Resource person/ participants:** Mr.Arjun Chakraborti, President & Country Head India, Trakinvest.

Mr. Ankith Tiwari, Director of Engineering, Trakinvest.

**Number of participants:** 30 participants from various institutions including faculty members and research scholars.

**Vision:** Blockchain have good potential to transform the logging and management of transactions in different application areas.

**Identification and addressing the GAP:** Emerging technology but yet to be implemented in India.

### Measurable outcomes:

- Understand the concepts of cryptocurrencies and blockchain technology.
- Able to roughly asses how blockchain technology could change their business model, what would be the benefits and what challenges they would have to tackle.



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**Department of Information Science**

<b>Event Name</b>	<b>INTER COLLEGE PROJECT COMPETITION</b>
<b>Theme</b>	Enhance the knowledge of student and motivate them to compete in the global competitive engineering field.
<b>Date</b>	08/05/2019
<b>Tools Used:</b>	Zoom Cloud Meetings

**Objectives of the Program/ Event**

- To stimulate students and researcher to work on exciting project
- To understand best practices and demonstration of diverse project, new innovations, etc.
- To provide networking opportunity with industries that can help create breakthroughs.
- To relate the functioning of industry while working on project and understand how does.



**Purpose:** Technical project competition allows students to practice soft skills while reinforcing their engineering knowledge.





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**About the Topic:** The project competition provides an excellent opportunity to the students to showcase their talent, research orientation and untapped potential. The goal of this competition is to prepare the future generation of engineers not only problem solvers but to be innovative leaders and responsible citizens.

**Resource person/ participants:** Mr. Prashanth Kumar, Chief Executive Director, Eysa Engineering Pvt. limited Bangalore, Skill Development & Entrepreneurship Development Committee, KASSIA.

Smt. Rekha Gopal, Co-Chairperson and Member Skill Development & Entrepreneurship Development Committee, KASSIA.

8<sup>th</sup> Semester Students.

**Vision:** Furnishes to the students to provide Idealistic view of the desired outcomes to be produced for the business after successful project completion.

**Identification and addressing the GAP:** Adopting the current technologies and modern tools for designing and modelling engineering activities.

**Measurable outcomes:** helps to promote intercultural and inter disciplinary dialogue and cooperation, through the involvement of students, teachers, and industry.



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**Department of Information Science**

<b>Event Name</b>	<b>HANDS-ON WORKSHOP ON OBJECT ORIENTED CONCEPTS USING JAVA</b>
<b>Theme</b>	Implement object-oriented designs with Java
<b>Date</b>	11 <sup>th</sup> April 2019 to 13 <sup>th</sup> April 2019
<b>Venue</b>	A block, 308 Room no.

**Objectives of the Program/ Event**

1. To learn how to implement object-oriented designs with Java
2. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.
3. Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.



**Purpose:** Purpose was to give hands-on experience for students and to improve their confidence level in coding java programs.

**About the Topic:** The workshop helped the students to write java programs using concepts of Inheritance, Polymorphism, Multi-Threading, Exception Handling and Event Handling.

**Resource person/ participants:**

**Mr. Aravind, Ethnus Consultancy Pvt Ltd,**

4<sup>th</sup> Semester Students, Department of Information Science.

**Vision:** To learn features and coding skills of Object oriented language.

**Identification and addressing the GAP:** Some of the vital concepts of C++ have simpler object model.

**Measurable outcomes:** The trainers helped the students to understand the concepts and code the programs. The session was made enthusiastic by adding some multiple choice questions which helps them for cracking interview questions in their placements.







**Department of Information Science**

<b>Event Name</b>	<b>PROJECT SYMPOSIUM</b>
<b>Theme</b>	The ability to successfully execute projects is what drives the realization of intended benefits.
<b>Date</b>	<b>23-02-2019</b>
<b>Venue</b>	A block, 308 Room no.

**Objectives of the Program/ Event**

- To identify and understand various aspects of theme and problems.
- To develop the ability to decision and judgment regarding a problem.
- To develop the values and feelings regarding the problem.





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## Department of Information Science

**Purpose:** Technical project symposium allows students to enhance their broad understandings of a topic or a problem.

**About the Topic:** The project symposium provides an excellent opportunity to the students to showcase their research orientation towards their desired domain.

**Resource person/ participants:** Mr. Karthik T M, Software Engineer, Ness Digital Engineering, Bangalore and Ms. Aruna S V, Data Analyst, Tesco India Pvt Ltd, Bangalore.  
8<sup>th</sup> Semester Students dept of Information Science.

**Vision:** It provides a national platform for students to showcase their talents in hardware, software and paper presentation competitions, displaying cutting edge technology and research.

**Identification and addressing the GAP:** Adopting the current technologies and modern tools for designing and modelling engineering activities.

**Measurable outcomes:** Symposiums enhance the technical knowledge of students and provide them a platform to exhibit their talents. It helps students to identify and understand the various aspects of their domain which provides opportunities for them to develop their versatility and charisma in the divergent facet of their growth.



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## Department of Information Science

<b>Event Name</b>	<b>BUSINESS MODEL PRESENTATION DAY</b>
<b>Theme</b>	To Explore Business start-up Ideas in students
<b>Date</b>	02/11/2018
<b>Venue</b>	A block, 308 Room no.



**Objectives of the Program/ Event:** Is to make students present the Business Ideas and explore various opportunities and precautions to be taken while starting a Business.

**Purpose:** To Explore Business start-up Ideas in students

**About the Topic:** Business model is used for a broad range of informal or formal descriptions to represent core aspects of a business, including purpose, business process, target customers, offerings, strategies, infrastructure, organizational structures, sourcing, trading practices, and operational processes and policies including culture.



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## Department of Information Science

### Resource person/ participants:

1. Mrs. Preksha Mohan (Co-founder of OMSA LABEL, Fashion & Travel Blogger)
2. Ms. Aruna (Franchise owner at Texture Touch)
3. Mr. Akshay Makam (Software tester at NTT data, Alumni Entrepreneur at Photo Factory)
4. Mr. Harish M (Alumni Entrepreneur)

### 5<sup>th</sup> Semester Students dept. of Information Science

**Vision:** Understand Business challenges and Develop Appropriate model to overcome it

**Identification and addressing the GAP:** To enable students to present their Business Ideas by actively taking part in the group and enhance their communication skills.

### Measurable outcomes:

- Will understand different types of business like Direct sales, franchising, advertising-based, and brick-and-mortar stores
- Students will be able to participate in various Business Model competition
- Will be able to start a business with less investment or no investment
- Will get a clarity about the threats and opportunities in start-up ideas
- Will get a clear idea of how to avoid loss in investments
- Come to know what technology may be appropriate for implementing Business Ideas
- Build new innovative business models.



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## Department of Information Science



<b>Event Name</b>	<b>FDP ON BIG DATA ANALYTICS USING HADOOP</b>
<b>Theme</b>	Equips with essential skills to use Hadoop for Big Data analysis.
<b>Date</b>	16th July 2018 to 20th July 2018
<b>Venue</b>	'A' Block 305, ML lab

**Objectives of the Program/ Event:** Big data analytics helps in many ways, including examining large amount of data to find an appropriate information, identifying hidden patterns and unknown correlations, useful for competitive advantage, making better business decisions – strategic and operational.



**Purpose:** Big Data Architecture addresses data formats, transformation, real-time, batch and machine learning processing, scalability, fault tolerance, security and privacy issues.

### About the Topic:

- Introduction about Big data, Handling of Big data in IT and the basic architecture of Big data.
- research challenges in Big data and concept of MapReduce with real time examples.
- Application of Big data in Industry about YARN architecture and How to write Map-Reduce code.
- Business Intelligence in Big data analytics and based on Data mining, ETL and Data cube in Data mining concept.
- Data Warehousing and Data mining fundamental concepts.



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- Open source tools to develop distributed file system, Aginity, Nettle tools and focused on implementing data mining concepts on that tool
- Learnt installation of Hadoop and all the participants works with the case study in Hadoop.
- Hands on session on recent tools used in IT industries like Apache Flume, Apache Ambari and Apache Pig software tools were done practically.

### Resource person/ participants: Chief guest :

**Chief guest:** Dr. P P Nageswara Rao, Director, IGBP/NESAC-ISRO, Mr. Madeva Nagaral, Deputy Manager, Aircraft research and Design HAL Bangalore, Mr. Milind Tavra, Manager, Technical and Sales, Drivers and control Division, Bosch Rexroth, Bangalore. Mr. Kishore M , Managing Director, Digital Shark Technology, Bangalore.

**Resource person** Dr. Sanjay Chitnis, Director Innovations labs, Dayananda Sagar University. Mr. Niranjan Kamath, Head Big Data Analytics Group, HP, Bangalore. Dr. Rajesh T.M, Professor, Dept. CS&E, Dayananda Sagar University, Dr. B Venkateswarlu, Professor, Dept. CS&E, Dayananda Sagar University, Mr. Vithal Sampgar, Module Lead Developer, Impetus, Bangalore.

**Number of participants:** 30 participants from various institutions including faculty members and research scholars.

**Vision:** Helps faculties to understand teaching methodologies in Big Data Analytics Using Hadoop

**Identification and addressing the GAP:** various Data mining algorithms to be covered as a prerequisite to big data and analytics.

**Measurable outcomes:** Big data analytics examines large amounts of data to uncover hidden patterns, correlations and other insights.





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## Department of Information Science

<b>Event Name</b>	<b>Workshop on Advanced Java and J2EE Applications</b>
<b>Theme</b>	<b>Impart participants with the knowledge on design and development of enterprise applications.</b>
<b>Date</b>	<b>April 2<sup>nd</sup> and 3<sup>rd</sup> 2018</b>
<b>Venue</b>	<b>'A' Block Seminar hall 4<sup>th</sup> floor</b>

### Objectives of the Program/ Event

1. To learn how to implement object-oriented designs with Java
2. Understanding advanced Java concepts Event handling, Synchronization, Framework, J2EE concepts.







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**Purpose:** Purpose was to give hands-on experience for students and to improve their confidence level in coding java programs.

**About the Topic:** Introduction on the Object Oriented Concepts and continued with advanced Java concepts. In the second day session focused on J2EE concepts such as java server pages (JSP), JDBC connectivity and innovative mini projects.

### Resource person/ participants:

**Mr. Mr.Shaabaz Sha**

Tech Lead, eMath Technologies Pvt Ltd

Bangalore

**Number of participants:** 4<sup>th</sup> semester, 115 students

**Vision:** To learn features and coding skills of Object oriented language.

**Identification and addressing the GAP:** Some of the vital concepts of C++ have simpler object model.

### Measurable outcomes:

- Exposing importance of Java and J2EE in industry and for other programming languages.
- The session was made enthusiastic by adding some multiple choice questions which helps them for cracking interview questions in their placements.



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## Department of Information Science

<b>Event Name</b>	<b>4 DAYS TECHNICAL SESSION ON DEVOPS</b>
<b>Theme</b>	DevOps helps to communicate and collaborate between development and IT operations.
<b>Date</b>	24-2-2018, 24-3-2018, 19-4-2018 and 20-4-2018
<b>Venue</b>	'A' Block, 305

**Objectives of the Program/ Event:** Understand and analyze the different methodologies like agile, waterfall, iterative, devops, etc. Comparison of these methodologies, their pros and cons and why there is a need for Devops was focused.



**Purpose:** It optimizes the flow of value from idea to end user. Also enables faster release and deployment cycles by taking advantage of agile development methodologies.



# DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)

(6 Branches CSE, ISE, ECE, EEE, ME& CE Accredited 3 years by NBA, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082



## Department of Information Science

### About the Topic:

- They were also explained various cloud technologies, types of cloud and why cloud is necessary.
- The introduction to different method such as Waterfall model, iterative method, agile method etc was given.
- The introduction to the cloud was also given, such as types of cloud computing: IaaS, SaaS and PaaS.
- The basics of networking, servers, etc. were discussed.
- Students were taught how a machine could be launched in the aws and how they could connect and execute commands.
- Different components of cloud like, EC2 machines instances, s3 machines, storage, networks config, etc was introduced.

**Resource person/ participants:** Mr. Arjun Patel Associate Consultant at Siemens

**Number of participants:** 6<sup>th</sup> semester, 96 students

**Vision:** Helps to understand Devops methodology, various cloud services and project management tools to students.

**Identification and addressing the GAP:** DevOps cycle helps to differentiate between development and deployment.

**Measurable outcomes:** Students were thought how to create images and use the image to launch it via teraform which can be used as an automation tool used over different clouds such as azure, asw, etc. Image creation was automated using this tool called packer and tag a name to the instances.



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## Department of Information Science

<b>Event Name</b>	<b>WORKSHOP ON “EMBEDDED SYSTEMS USING ARM7</b>
<b>Theme</b>	Practical aspects of ARM7 controller which includes internal architecture with advanced embedded system.
<b>Date</b>	March 13 <sup>th</sup> 2017 to 17 <sup>th</sup> March 2017
<b>Venue</b>	‘A’ Block 404, ADE/MP lab

### Objectives of the Program/ Event:

- To gain an in-depth knowledge on what is happening at compile, link and runtime on a target processor
- To introduce good quality and style for real-time embedded programming



**Purpose:** ARM7 is used for quick and efficient application development which consisting of low power consumption and low cost.

**About the Topic:** With a brief introduction on embedded system and the application further continued ARM7. Few lab programs on the dias were solved and exposing importance of Embedded systems in industry and benefits of ARM7 was discussed.

**Resource person/ participants:** Mr. Sanjay Bhagat Director of ASSISI E-technologies & partnered with Jyothi embedded labs, Bangalore

**Number of participants:** 4<sup>th</sup> semester, 96 students

**Vision:** Helps students to understand ARM hardware architecture and comparing the advantages of ARM with microcontrollers.

**Identification and addressing the GAP:** Hardware is limited for specific task.

**Measurable outcomes:** This course aims to make students to get the skills of programming the microcontroller, interfacing of external peripherals to microcontroller and troubleshooting of microcontroller based embedded electronic systems.