Information Science and Engineering
Beyond Expectations

A Half-Yearly Publication

i-NEWS

Volume 3
Issue I

Star Events

⭐ **12** Days **F**aculty **D**evelopement **P**rogram

⭐ **E**thical **H**acking **and** **C**yber **S**ecurity **W**ork**S**hop

Newsletter 2017

Foreword

Welcome. This is an to speak with you through the departmental newsletter. It has been an interesting and busy semester for members of the Department. It gives me great opportunity to present this issue of NEWSLETTER exclusively by Information Science & Engineering department.

This newsletter is one of the ways in which we can disseminate information on the life of the Department – in terms of academics, co-curricular, extra-curricular as well as research & developments.

I would like to request for your active collaboration over the coming months in the development of a shared vision for the department.

I would like to thank all my colleagues for their tireless efforts to help the department progress at a very steady pace

Dr. Jitendranath Mungara
Prof. & Head – ISE

Dr. Jitendranath Mungara,
Professor & Head - Information
science and Engineering

About the Department:

Information science and Engineering department focuses on current Information Technology trends, and Domain Specific Applications. The program facilitates the evolution of skills in students to help them attain a higher degree of knowledge, global competency and excellence, for the betterment of the society. The Department of Information science and Engineering at NHCE was established in the year of 2001 and offers graduate and PhD programs. The four year B.E degree equip the students to meet day- to- day Technological advancements of the ever dynamic IT field through adept training on various subjects of curriculum of Information Science and engineering and beyond. The department offers B.E program through autonomous scheme from the year 2015. The department has a total intake of over 380 students with a very good team of highly qualified and talented faculty members including Professors, Associate Professors and Assistant Professors.

Information Science and Engineering course at New Horizon College of Engineering is designed to meet industry standard and cope up with the emerging technology. There is a great emphasis on holistic learning to help the students to make significant contributions at all levels and to meet the expectations of stakeholders. The department is well known for its research excellence in various competitive areas of Information Science. Students are made to involve vigorously in research activities. The department provides industry collaborated courses for the students.

Faculty Members registered for Ph.D in Odd sem 2016-17:

Sl.No	Name	Designation	Specialization	University
1	Mrs. Shobha S	Asst.Prof.	Network Security	VTU
2	Mrs. Divya K	Asst.Prof.	Software Engineering	VTU
3	Mrs. Mounica B	Asst.Prof.	Big data Analytics	VIT University

MOOC - NPTEL Toppers

Mrs. Swathi B. , Assistant Professor, Department of ISE, NHCE achieved highest score one among Top 5% scorers in Software Testing NPTEL MOOCS course conducted by IIT Madras.

Mrs. Gowri Prasad, Assistant Professor, Department of ISE, NHCE achieved highest score one among Top 2% scorers in Cloud Computing NPTEL MOOCS course conducted by IIT Kharagpur, NPTEL MOOCS course.

Expert talk

Cloud Computing

Expert talk on "Cloud Computing Essentials" by Mr.KarthikeyanNarayanan ,Advisory Software Developer, IBM India Pvt. Ltd.

Cloud Computing Essentials

The expert speaker Mr. Karthikeyan Narayanan presenting introduction to cloud computing. He discussed challenges of the IT industry would face, if cloud computing wouldn't have existed and difficulties to perform operations without cloud computing

Cloud Computing and Security
Saturday, 9th September 2017

Guest Lecture on "Cloud Computing and Security" by Mrs. Ananthamalar Ramarathinam, Principal Consultant, Global Data Centre on 09th September 2017 Networks, Mercedes Benz R&D India.He covered security issues with cloud computing and techniques to handle the issues.

Workshop on Ethical Hacking and Cyber Security

Welcome to the Workshop of Ethical Hacking And Cyber Security

The workshop was initiated by Mrs. Shobha Shanmugam (Asst. Prof ,ISE Dept , iCSEH club Workshop Coordinator), who had analyzed numerous number of websites and organizations to get hold of the organization that delivers its best in the stipulated field. Without any delay she approached Dr.Jithendranath Mungara(HOD,ISE dept) to secure the permission to organize it within the department, where as the HOD who found the proposal very interesting and prominent decided to organize the workshop at intra-collegiate level. Which notion let them to approach Dr.Manjunatha(Principal, NHCE) , who was very impressed with the idea and not only gave his consent to organize it in intra-collegiate level rather inter-collegiate level. The process was long and tedious but with their constant support the workshop was finally approved by our honorable chairman Dr.Mohan Manghnani.

To go ahead professors Mrs. Shobha Shanmugam (Asst. Prof ,ISE Dept), Mrs. Mounica B(Asst Prof, ISE Dept), Mrs.Preeti J D(Asst. Prof ,ISE Dept) formed a unit to support and work on the backend requirements of the workshop. As CSEH is a student oriented club , efficient working student committee was formed to work on the same.

Participants Received Certificates from Dr.Manjunatha - Principal,Dr. Ganesh Prasad M S,Dean – Student Affairs & HOD – ME and Dr.Jitendranath Mungara,HOD-ISE.

IoT Revolution: A Sneak Peak

Guest talk on the "IoT Revolution:A Sneak Peak" for the 3rd semester students on 10th October 2017 under the supervision of ISE Head of the department, Dr. Jitendranath Mungara at ISE department class room. The expert speaker Mrs. Thiripura Sundari, Project Manager, HCL technologies, was invited to conduct the same.

She gave brief introduction on components of IoTimplementation.

- ➢ Sensors
- ➢ Networks
- ➢ Standards
- ➢ Intelligent actions and analysis

Followed by she discussed in detail about the sensors which could be wearable and non wearable.She discussed about the different types of networks used in IoT.For example Zig bee,Blutooth,6lowpan,PAN

Further She continued the discussion by expalaining about the programming languages used in IoT applications.

C,JAVA,JAVA SCRIPT,Python,PHP.,wift

Further she discussed about IP address as every device on the Internet is assigned a unique IP address for identification and

Expert talk

The speaker, Mrs. Hridya Krishna Kumar delivering expert lecture on current trends in Testing and the types of testing like Black Box and White Box Testing. She covered the challenges the Applications would face, if Testing is not considered. She covered Regression Testing in particular and how this would help to cover the functionality testing with modifications for every release.

Software Testing Fundamentals

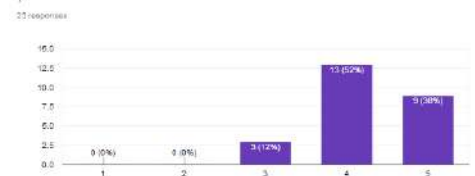## Software Testing & Test automation - An Introduction

The expert Mrs. Thiripura Sundari, speaker started her talk by giving introduction about SDLC and objectives of testing.
Test principles & Software Test Life Cycle (STLC): Requirement analysis, Test panning, Test case development, Environment setup, Test execution, Test cycle closure
V model & Agile mode: Acceptance test driven development, Behaviour driven development (BDD), Test driven development (TDD), TDD vs BDD, Test strategy, Test plan.
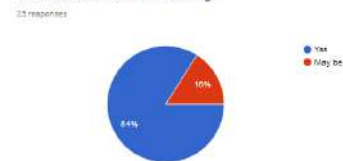
Dr. Jitendranath Mungara HOD of ISE, and

Mr. Ranjan Manish, Head-Industry Institute collaboration, NHCE and Faculty Coordinators with 5th

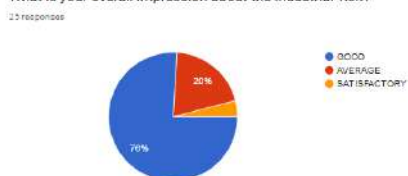Contentment on industrial visit in understanding TTTI & their objectives ?

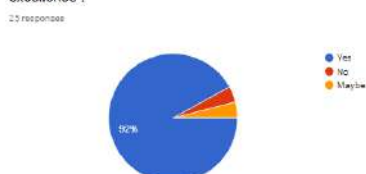Was the industrial visit interesting?

Industrial Visit
Toyota Kirloskar Pvt. Ltd.

What is your overall impression about the industrial visit?

Did the industrial visit improve your perception of educational excellence ?

Friday, 10th November 2017

Mr. Bhaskar Pai, a person from Human Resources and services group explained different software specifications and current softwares which are used to integrate with car parts. Also, He explained about advanced softwares required and role of softwares in different automobile parts which are manufactured to build new generation cars.

Students got valuable information about softwares required by automobile industries.
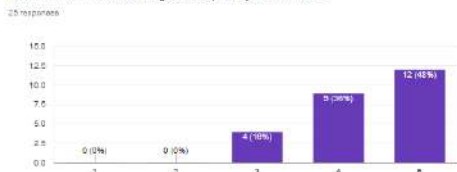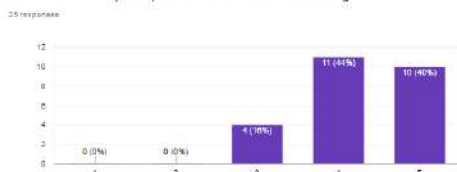
Expert talk
Working with Servlets and JSP

How far the trainers managed to capture your attention?

How far 'audience participation & interaction' was encouraged?

Information Science and Engineering has conducted an Expert talk on the topic "Working with Servlets and JSP" for the 5th semester students on 11th November, 2017 under the supervision of ISE Head of the department, Dr. Jitendranath Mungara at ISE department class room. The expert speaker, Mrs. Sushma.V, was invited to conduct the same.

The expert speaker started with application of Java in real world products like e-commerce, retail, banking , security , mobile apps etc. She then discussed the various Java core concepts collection framework and is application in real – world solutions.

Client-server paradigm was explained. Expert shared her working knowledge on the main components
1. Client coding with html
2. Servlet
3. JSP
4. Web.xml
5. Web-INF
6. Server configuration
7. Deployment in real time environment

MVC , model-view controller pattern and its relevance. Servlets and Java Server Pages (JSP) technologies were discussed and its examples were demonstrated.

VMware IT Academy
Basic vSPhere Networking

Students from various department of New Horizon College of Engineering were enrolled to the expert talk who actively participated in the program. The expert talk was scheduled between 02:00PM to 05:00PM.

Performance Excellence Award ambeded to New Horizon College of Engineering for active participation of VMware IT Academy initiatives during the academic year 16-17

VMware IT Academy
Thursday, 16th November 2017

The training was conducted by Mr. Ashish Gupta, Software Engineer working in Networking & Security (R&D) Business Unit at VMWare, VMware and hands-on session was delivered by Mr. Prashant Shetty, Senior Software Engineer, working in Networking & Security (R&D) Business Unit at VMWare. The talk started with an overview of VMware vSphere Network essentials. Further the training progressed with various hands-on sessions on vSphere Web Client.

Expert talk
Conversational UI and Chatbots

The expert speaker, Mr. Antony Willet, started with the basics of Conversational UI. The building blocks for Conversational UI such as Turn Taking, Threading, Leveraging the inherent efficiency of language. Some basic concepts about CI, the main differences from other Chatbot approaches like NLP or Voice UI with some interesting examples were covered.

Wipro Talent Next at NHCE

Wipro Talent Next Program on Java and Web Technologies @ NHCE-Mr.Gangadhar Immadi ,Assistant Professor,ISE,NHCE trained students for placements.

Faculty Development Program
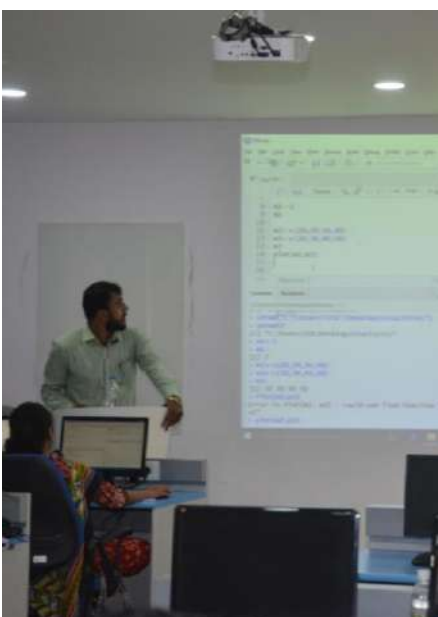## 11-12-2017 to 15-12-2017

A talk on "**IoT and Advanced Analytics Research Trends & Innovation Opportunities**" was delivered by Dr.Madhan Kumar Srinivasan Associate Vice President,Cloud Computing Innovation Council of India. (11.12.2017)

A Technical talk on "**Internet of Everything** " was delivered by Mr Jayaram Beladakere Director, Product Management, Cisco Systems India. (11.12.2017)

Dr. Jitendranath Mungara, HOD-ISE presenting token of gratitude to Dr. Manjunatha, Principal, NHCE. (12.12.2017)

Dr. Gopalakrishnan, Dean-R&D, NHCE interacting with the participants. (12.12.2017)

Workshop on "**Machine Learning with R**" was conducted by **Mr.Mithun, Asst. Manager, Predictive Analysis, Bangalore.**

Key note address on "Technology and business" was delivered by Dr. Prashanth CSR , Dean academics,NHCE. (13.12.2017)

Faculty Development Program
18-12-2017 to 23-12-2017

Key note address on "**Cloud Computing: Evolution as a Service and its Applications**" was delivered by Dr. Ganesh Kumar, Associate Professor, Dept of CSE, Christ University. (20.12.2017)

Workshop on **"Hybrid Mobile App Development"** was delivered by **Mr. Ramkumar Arumugham**, Freelancer, Madurai. Tamil Nadu. (18.12.2017)

Expert Talk on "Recent Advances in Machine Learning & Deep Learning" was delivered by Dr. Dinesh R, Principal Engineer, Samsung,

A Workshop on "Ethical Hacking and Cyber Security" was conducted by Mr. OOPS, i3-indya Technologies. (21.12.2017)

Talk on "**Information and Network security**" was delivered by Mr. Vinay Urs Devaraja, Product Security Manager, [24/7] Customer Pvt. Ltd. , Bangalore.

Talk on "Sensor Networks and IoT" was delivered by Dr. T. R. Ganesh Babu, Professor in ECE, Muthayammal Engineering College, TamilNadu. (23.12.2017)

VISION :

TO EVOLVE AS A CENTRE OF ACADEMIC EXCELLENCE AND ADVANCED RESEARCH IN INFORMATION SCIENCE AND ENGINEERING DISCIPLINE AND TO ENDEAVOUR THE COMPUTATIONAL COMPETENCE OF STUDENTS FOR THEIR DREAM CAREER ACHIEVEMENT AND ENHANCING THE MANAGERIAL AND TECHNICAL SKILLS.

MISSION :

TO EVOLVE AS A CENTRE OF ACADEMIC EXCELLENCE AND ADVANCED RESEARCH IN INFORMATION SCIENCE AND ENGINEERING DISCIPLINE AND TO ENDEAVOUR THE COMPUTATIONAL COMPETENCE OF STUDENTS FOR THEIR DREAM CAREER ACHIEVEMENT AND

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