



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

GUEST LECTURE CONDUCTED IN ODD SEM (2017-2018)

Report –Guest Lecture on “IoT Revolution:A Sneak Peak”

NAME OF THE SCHOLAR	TITLE OF THE LECTURE	COMPANY/ INSTITUTION	DESIGNATION	AREA OF SPECIALIZATION	PARTICIPANTS	DATE
Mrs. Thiripura Sundari	IoT Revolution:A Sneak Peak	HCL Technologies	Project Manager	Software Testing,Agile Methodology,HIPPA regulation,HL7 interface standards	III Semester Students	10/10/2017

We the department of Information Science and Engineering has conducted Guest talk on the topic **“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.

Her Qualifications is BE(Computer Science Engineering) and having 13+ years of experience in Software Testing and Project Management with expertise in Telecom domain.She has vast exposure in the fields of Web Service testing, SOA testing, BPM testing, EAI Integration Testing, Service Virtualization and Test Automation.She also has Exposure to Web Service/SOA testing tools like LISA 7.5, DevTest 8.2, SOAP UI, Para Soft SOA Test, HP service Test 9.5/11.2.

She is Certified in Project Management Professional. **PMP®**, ITIL® Foundation in IT Service Management and in Agile Foundation program. She was awarded ‘Feather In My Cap’ award for cardinal contribution towards Integration testing fromAtheeb Telecom project in 2009,R & R Delivery’ award 2012 for excellent efforts in T-mobile project in 2011.She was awarded ‘O Infinity League of Outstanding HCLites’ award for consecutive year of excellent performance in 2016 &2017

VARIOUS SESSIONS THROUGH THE PROGRAM:



Dr.Jitendranath Mungara, HOD-ISE welcoming the industry expert by presenting a sapling.



Dr.Jitendranath Mungara, HOD-ISE addressed the students regarding the guest lecture. The Internet of Things (IoT) is the network of physical objects—devices, vehicles, buildings and

other items which are embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data. The expert speaker Mrs. Thiripura Sundari, started her talk by giving introduction about IoT. She interacted with students by asking questions about IoT applications. Then She discussed about the applications of IoT in various sectors.

She gave brief introduction on components of IoT implementation.

- 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
- Bluetooth
- 6lowpan
- PAN

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

- C, JAVA, JAVA SCRIPT
- Python,
- PHP.
- Swift

Further she discussed about IP address as every device on the Internet is assigned a unique IP address for identification and location definition. She spoke about IPv6 addressing and expansion.



She continued by discussing about the challenges of IoT technology and how to choose and implement the correct IoT technology depends on the application. She discussed particularly about Home automation and real time applications. She made us understand the importance of cloud computing, Big data in IoT and she gave overview on how cloud is playing a prominent role in IoT. She gave few website addresses for the students to refer.

Finally She concluded the session by discussing the future of IoT and interacted with students and cleared their doubts.

Participants showed keen interest in learning the concepts, methodologies and gave satisfactory feedback at the end of the session. They also suggested that the duration of the session could be increased so that they may explore IoT.
