

# IEEE STB 64991 GNITS G.Narayanamma Institute of Tech & Science (Women) Events for Academic Year 2016-2017

## Department coordinators:

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## Student committee:

SB Chairperson: N.Naga Bhargavi  
SB Vice Chairperson: P.Neha  
SB Secretary: N.Nikitha Neeladdi  
SB Treasurer: SB Public relations Chairperson: Meghana Kirthi Kokku  
SB Public relations Vice Chairperson: SriVidya  
Following events were organized under IEEE SB GM.Sneha  
NITS and  
WIE AG (Women in Engg. Affinity Group) **from August-2016 till present**

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**1.Seminar on Virtual Labs:** On 1st-Sept 2016, **Mr. Ravi Shankar and Mr. Lalith Mohan from IIITH** delivered a half day session on Virtual Labs. About 100students attended the event from various branches. During the workshop the students were introduced to the Open edX platform, MOOC platform, various labs available and also of executing experiments in Virtual labs.





**2. Workshop on IoT:** This workshop was conducted by **Smart Bridge educational services** on 10th & 11th Sept 2016, and 250 students participated with great interest. The students were exposed to Hardware Integration, Software Programming, Cloud Computing, Data Analytics, Web & Mobile applications.

### **IOT Workshop (10th and 11th Sept 2016) Schedule**

#### **DAY-1**

Seminar session: Timings: 9:30-10:30am

Concepts that will be covered in labs: 10:30am to 4:30pm

Introduction to IoT

- Application of IoT in various business sectors.
- IoT architecture.
- How to build an IoT product.
- Sensor and interfacing.
- Software and hardware platform for IoT implementation.
- Introduction to Arduino hardware and IDE.

#### **PRACTICALS**

- Outdoor temperature and Humidity monitoring.
- Motion detection using PIR sensor.
- Distance measurement using Ultrasonic sensor.

#### **DAY-2**

Concepts that will be covered in labs: 9:30am to 4:30pm

- Introduction to cloud.
- Uploading sensor data to cloud using API's.
- Data visualization, data analytics, plugins, import & exports.
- Introduction to ESP8266 and NODE MUC firmware.
- Introduction to LUA programming.

#### **PRACTICALS**

- Uploading temperature & humidity data to things peak cloud & ubi Dots cloud using wifi.
- Automatic Phone/Email notification based on event trigger using IFTTT.
- Control of equipment using ESP8266+NODE MUC Web server.
- Home automation using Voice Commands & Bluetooth.

### Instructions to students

- Each team should have atleast one Laptop, Pen drive, Smart Phone
- Look tomorrow for the the updates in this document.
- TRANSPORT: 3 buses are provided in main routes.
  - 2D 13E (in normal routes)
- VENUE: F-block and CSE- BLOCK (details will be informed soon)
- Certificate of participation will be provided
- On first day, Software loading/installation will be done at 10:30am. There will be common seminar session in seminar halls F10 and F-block seminar hall from 9:30 to 10:30am.
- Allotment of students in labs will be given soon.
- No food will be provided to the participants. Participants can purchase their food from college canteen.

### ALLOTMENT OF TEAMS TO THE LABS

LAB NO	BATCHES	SEMINAR SESSION	DEPARTMENT
CC-3(FBLOCK 2 <sup>nd</sup> floor)	12	F-10	ECE STUDENTS
CC-4(FBLOCK 2 <sup>nd</sup> floor)	12		ECE STUDENTS
CC-5(FBLOCK 2 <sup>nd</sup> floor)	12		ECE STUDENTS
CL-1(CSE BLOCK)	12	F-BLOCK SEMINAR HALL(1 <sup>st</sup> floor)	IT STUDENTS
CL-2(CSE BLOCK)	4		IT STUDENTS
CL-2(CSE BLOCK)	4		CSE STUDENTS
CL-2(CSE BLOCK)	4		ECE STUDENTS
CL-3(CSE BLOCK)	10		EEE STUDENTS
CL-3(CSE BLOCK)	3		ETM STUDENTS





3. **Seminar on IEEE Xplore Digital Library:** An awareness session on how to utilize the IEEE Xplore Digital Library was held on 21st December 2017 on by **Morla Kamakshaiah**, Senior Sales Manager, GIST and around 50 students attended. The key issues discussed were how to – utilize IEEE Xplore Digital Library, search for articles and papers on the website, refine search on the website, create a personal account on [ieeexplore.ieee.org](http://ieeexplore.ieee.org). Quizzing was done at the end of the session when many students awarded with goodies. Certificates are also awarded for the attendees,





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#### 4. Two day Workshop on Cyber Security and Ethical Hacking:

This workshop was conducted by E-MARSHALS INFOSEC PVT.LTD on 20th&21st Jan 2017. The objective of the workshop was to create awareness among students on ethical hacking techniques & information security and how to implement them in a positive manner. A total of 112 students and 10 faculty members have attended the workshop.

Three top performers in this workshop

1. **Nidhi N.N.N P (15251A05E3),**

2. **Srividya S. (14251A0453),**

3. **M.Sravanthi (14251A0588 )**, were given the opportunity of doing advanced certification course of duration one month for free registration.

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5. **Lecture on Power Grid and Studies Abroad:** Alumna of GNITS, **Ms. Rupamathi** perusing Ph.D at prestigious Carnegie Mellon University, give an interesting talk on Power Grid and Studies Abroad on 4th Feb 2017.

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6. **Paper presentation and Poster presentation** is also planned on 1st April 2017, with the papers to be presented to be from only IEEE magazines.