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ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES (A)
 (Approved by AICTE, Affiliated to Andhra University & Accredited by NBA)
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 24/01/2020

CIRCULAR

This is to inform all the 3/4 B.Tech II semester CSE Students that, a workshop has been arranged on "IoT USING MICROPYTHON". Hence all the interested students are suggested to attend the session and get benefited.

Note: 12 students per section

Resource person(s):

- 1. S. BOSU BABU, Asst Prof, CSE.

Venue: LAB-2

Date: 25/01/2020

Timings: 12:50 PM-03:20 PM

Co-ordinator
CSI Student Branch
 Dept. of Computer Science and Engineering
 Anil Neerukonda Institute of
 Technology and Sciences (Autonomous)
 Sangivalasa-531162, Bheemunipatnam Mandal,
 Visakhapatnam Dist.

Coordinator, CSI
[Signature]
 24/1/20

[Signature]
 Head of the Department
HOD, CSE
 Computer Science & Engineering
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa, Visakhapatnam Dist.

cc to 3/4 classes, NB
[Signature]
 24/1/2020

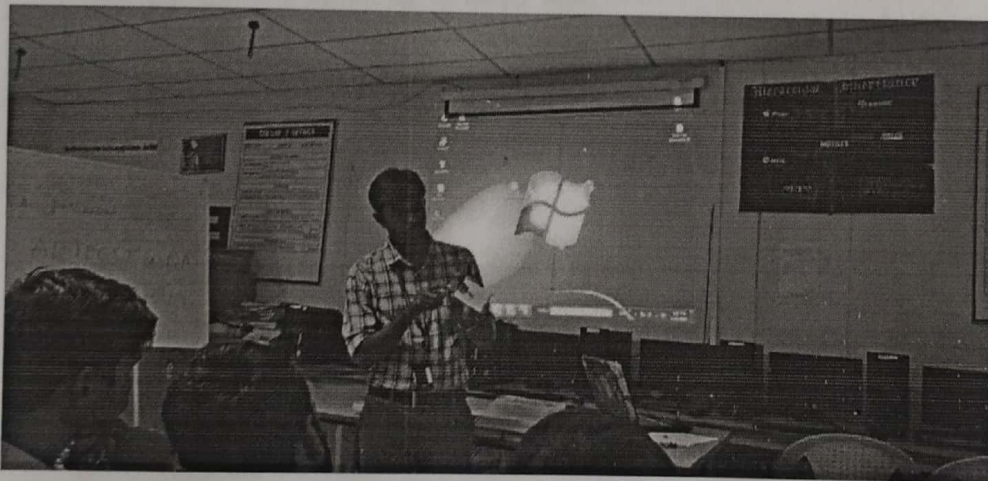
Workshop

Topic : IoT with Python

Speaker : Mr. S.Bosu Babu

Mr S.Bosu babu is working in ANITS as an assistant professor.

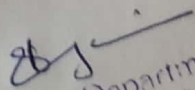
The session started with a brief introduction to IoT. He defined IoT as “system of inter-related computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers(UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. He then explained about the major components of IoT . The components are a device, gateway, cloud, analytics, user interface. He then introduced microcontrollers like Arduino, ESP8266, RaspberryPi and their hardware structure. He then explained the features of Python that makes it ideal to work with IoT. The features are easy to learn, speed, Library support, embeddable, extensible, interpreted, portable, free and open source, community supports.

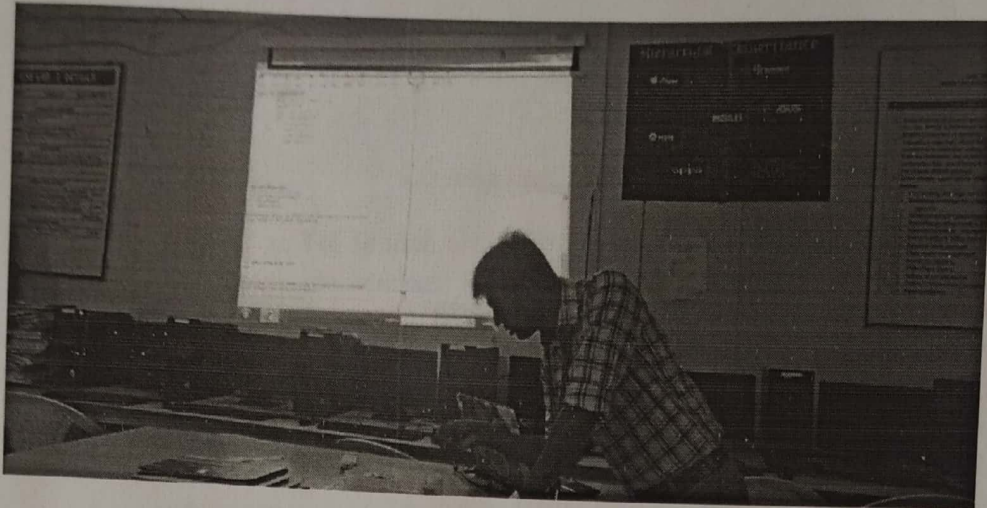


Demonstration of bread board connections with LED

In this session, Mr.S.Bosu babu has addressed three modules. Firstly, Programming an LED with the help of Arduino. He gave brief introduction to the architecture of

Arduino kit and then constructed the circuit and made the students to code.


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Sangivalasa, Visakhapatnam Dist.



Demonstration of sensor connected circuit

In the second module, he introduced sensors and its types. In his words, a sensor is a device that converts physical parameter like temperature, speed into a signal which can be measured electrically. Different types of sensors include temperature sensor, proximity sensor, light sensor, pressure sensor etc. He further explained the circuit used to program temperature sensor.

In the third module, he explained the operation of a button using servlet. Servlet is a small java program that runs within a web server. Servlets receive and respond to requests from web clients, usually across HTTP. He demonstrated the program using an android phone. He has connected the application in his phone with an LED device. As he presses the button in the application of his android phone. HTTP request was sent to server and java program was executed which thereby turned on the LED device.

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Head of the Department of Engineering
Computer Science & Technology
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Dy. Engg. Officer



Vote of thanks from the audience

Further session continued with theoretical explanation of some other experiments and finished with a set of doubts from the audience.

[Handwritten signature]

Head of the Department of
Computer Science & Engineering
Government Institute of
Technology & Sciences
Ghatampur Dist.

LOG REGISTER

Name of the Faculty: <u>Mr. S. Basubabu</u>	Date: <u>24/01/2020</u>
Name of the Lab In-charge: <u>udaya</u>	Time: <u>12:00</u> to <u>3:20</u>
Name of the Subject: <u>TOT Workshop</u>	Branch: <u>CSE-3/19</u> Batch: <u>3/4</u> <u>A/B/C</u>

S.No.	REG.No	Name of the Student	SYS No	Time In	Time Out	Signature
1	317126510088	K. Pavan		1:00	3:20	K. Pavan
2	317126510118	V. Krishna Chaitanya		1:00	3:20	V. Krishna Chaitanya
3	318126510117	A Sai Kumar		1:30	3:20	A. Sai Kumar
4	318126510116	Deekshith		1:30	3:20	Deekshith
5	317126510045	G. Sai Leela Sashma		1:30	3:20	G. S. Leela Sashma
6	317126510116	V. Rishitha		1:30	3:20	Rishitha
7	318126510124	Krishna		1:30	3:20	Krishna
8	318126510108	Ch. Teja		1:30	3:20	Ch. Teja
9	318126510147	KANTA PRAVEEN		1:30	3:20	K. Praveen
10	318126510139	G. Kiran Kumar		1:30	3:20	G. Kiran Kumar
11	317126510072	G. Pavan Kumar		1:30	3:20	G. Pavan Kumar
12	317126510115	S. Gowtham Kumar		1:30	3:20	S. Gowtham Kumar
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Gates

S. J.

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