JEPPIAAR

INSTITUTE OF TECHNOLOGY

"Self Belief |Self Discipline | Self Respect"

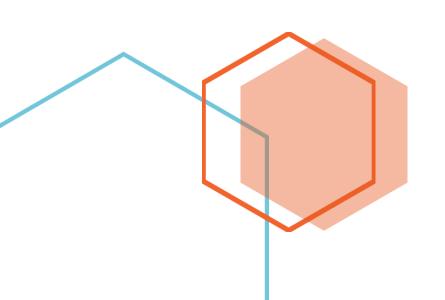# INTERNET OF THINGS(IOT) CLUB

"If you think that the internet has changed your life, think again. The Internet of Things is about to change it all over again!"

- Brendan O'Brien

DEPARTMENT OF INFORMATION TECHNOLOGY

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DEPARTMENT VISION

To facilitate the evolution of problem solving skills along with knowledge application
 in the field of Information Technology, understanding industrial
and global requirements for the benefit of the society.

DEPARTMENT   MISSION

❖ To produce creative and productive computing graduates in software

   development being aware of global requirements and maximize employability.

❖ To enhance evolution of professional skills and development of leadership

   traits among the students to grow into successful entrepreneurs.

❖ To offer students an advantageous infrastructure to apply their research

   thoughts and develop their technical skills.

OBJECTIVE OF THE CLUB

- The club will primarily focus on mastering students' skills through various hands-on sessions and projects.
- Make students knowledgeable about Arduino, Raspberry Pi, Automation sensors, and Actuators, among other devices.
- Hands-on workshops for skill development and experience at the institute.

PREREQUISITE

C Programming

Club Activities:

- ❖ Club Inauguration
- ❖ Training Program
- ❖ Projects

CLUB INAUGURATION

Jeppiaar Institute of Technology inaugurated IOT Lab-Centre of Excellence on **July 16th 2019**. Industrial Expertise from Softura Pvt.Ltd. graced the moment with their valuable presence.

MOU SIGNING WITH SOFTURA Pvt.Ltd

Jeppiaar Institute of Technology signed a **MOU** with **Softura Pvt.Ltd** inaugurated IOT Lab-Centre of Excellence Industrial Expertise from Softura Pvt.Ltd. graced the occasion with their valued presence

TRAINING PROGRAM

The department of Information Technology associated with Softura organized a Industrial Visit on IOT Training and Conference on Human Digitilization Programme for 1 day on 04.09.2019 at New Horizon College of Engineering in Bangalore. 40 students of III years from all departments and Staff Co-Ordinator, Mr.R. Annamalai, Associate Professor, Department of Information Technology participated in this program and successfully completed the training program.

Softura Pvt.Ltd. organized a Hands-on Workshop on Internet of Things for 6 batches with a total of 40 Students. The event was conducted on 16.9.2019 & 17.9.2019 at Jeppiaar Institute of Technology. Students actively participated in the event and built small real time projects on Internet of Things.

Jeppiaar Institute of Technology associated with Softura Pvt.Ltd. Organized a a Project Based IOT Training

on every Friday from 9.00 A.M to 11.00 A.M by Mr.Srinivasarao, Global Delivery Head IOT for 30 Students in Jeppiaar Institute of Technology.

REAL TIME PROJECTS

- ❖ Controlling Home Appliances via Mobile
- ❖ IOT Car [Car can be controlled from any end in the world]
- ❖ Temperature based Alarm system
- ❖ Automatic Water heater system
- ❖ IOT Gun
- ❖ Motion Detection Alarm system
- ❖ Automation on water Tank filling system
- ❖ Security camera system with IR Technology
- ❖ Drone with face recognition
- ❖ Automatic Hand sanitizer
- ❖ social distancing Indicator
- ❖ Traffic light controller
- ❖ Health based Authentication system.
- ❖ Home Automation with Home Appliances.

STAFF COORDINATORS

1. Mr R Annamalai, Associate Professor, Department of Information Technology
2. Ms S Sudha Mercy, Assistant Professor, Department of Computer Science and Engineering

Student Coordinators:

1.   Mr Vishnu Prasath, III Year, Department of IT

2.   Mr Sutharsan G S, III Year, Department of IT

CLUB EVENTS

2019 – 2020

S.No	Date of The Event	Event Description	Number of Participants
1.	04.09.2019	Industrial Visit on IOT training and Conference on Human Digitization Program at New Horizon College of Engineering, Banglore	40
2.	16.9.2019 & 17.9.2019	Hands-on Workshop on Internet of Things	40

2020 – 2021

S.No	Date of The Event	Event Description	Number of Participants
1.	26.02.2021	Training Program- Introduction to Cloud	30
2.	05.03.2021	Connectivity- Wifi,Bluetooth,lora	30
3.	12.03.2021	Hands on Training program- Single Board Computers	30

S.No	Date of The Event	Event Description	Number of Participants
4.	19.03.2021	Hands on Training Program- Microprocessors, Microcontrollers, Sensors and Actuators	30
5.	26.03.2021	Training Program- Developing Innovative Project in IOT	30
6.	09.04.2021	Hands on Training on NodeMCU and its development	30
7.	16.04.2021	Hands on training on Arduino IDE Installation and Programming	30
8	23.04.2021	Hands on training on IOT Development Platform	30
9.	11.06.2021	Hands on training on creating AWS instance in EC2 with EC2 instance and configuration	30
10.	18.06.2021	Hands on Training on Installation of MQTT and NODERED on AWS, Dashboard Configuration in NODERED and usages	30
11.	25.06.2021	Hands on Training on Tasmotta Opensource firmware with AWS MQTT	30
12.	02.06.2021	Hands on training Interfacing NodeMCU with Tasmota platform and access GPIO in NodeMCU and Live data monitoring in AWS cloud	30

GALLERY

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SH 120, Kunnam, Tamil Nadu 602106, India
Lat N 12° 53' 23.7264"
Long E 79° 52' 27.1308"
12/03/21 11:27 AM

Kunnam, Tamil Nadu, India
SH 120, Kunnam, Tamil Nadu 602106, India
Lat N 12° 53' 30.7644"
Long E 79° 52' 33.8088"
19/03/21 11:43 AM