

3-day Workshop on “Raspberry Pi: A tool for Internet of Things (IoT)”

Department of Electrical Engineering, B.P.Poddar Institute of Management and Technology in the joint venture with IET Kolkata Local Network organized a 3-day Workshop on “Raspberry Pi : A tool for Internet of Things (IoT)” from 7th to 9th October 2021. Students of various engineering disciplines from different Institutes along with our own institute participated in this Workshop.

The program was inaugurated with the welcome speeches of Mr. Sankar Nath Mukhopadhyay, Chairman, IET Kolkata Local Network, Prof. Dr. Sutapa Mukherjee, Principal BPPIMT, Prof. (Dr.) B. N. Chatterjee, Emeritus Professor Former Dean Academics, BPPIMT and Dr. Nandita Sanyal, Head, Dept. of EE, BPPIMT. The event was successfully hosted on Zoom platform of our Institute. All six sessions were recorded and the link will be shared with the participants. Participants are provided with Participation Certificate on successful submission of Feedback Forms after each and every sessions.

All the Speakers are felicitated by an Appreciation Certificate.

The program is successfully conducted by the anchor Mr. Debasish Saha, our 3rd year student of Electrical Engineering

Day 1 (07.10.2021):

Session 1 (From 11.30am to 1.30pm): General Introduction to Internet of Things

Speaker: Mr. Debasish Gupta, Power Distribution Veteran, CESC Ltd.

Session 2 (From 3pm to 6pm): Introduction to IoT, Applications of IoT in daily life, Raspberry Pi, its hardware architecture and specifications, GPIO pin configuration, Booting Raspberry P

Speaker: Mr. Saptak Bhattacharya, Ph.D. Research Scholar, IEST, Shibpur

Day 2 (08.10.2021):

Session 3 (From 11am to 2pm): Introduction to python programming language, Basic python programming examples, Different python libraries and their functions, LED blinking with Raspberry Pi

Speaker: Mr. Saptak Bhattacharya, Ph.D. Research Scholar, IEST, Shibpur

Session 4 (From 4pm to 7pm): Interfacing digital inputs with Raspberry Pi, Digital output interfacing with Raspberry Pi, Interfacing Analog Input with Raspberry Pi, Servo control with Raspberry Pi through PWM output.

Speaker: Mr. Saptak Bhattacharya, Ph.D Research Scholar, IEST, Shibpur.

Day 3 (09.10.2021):

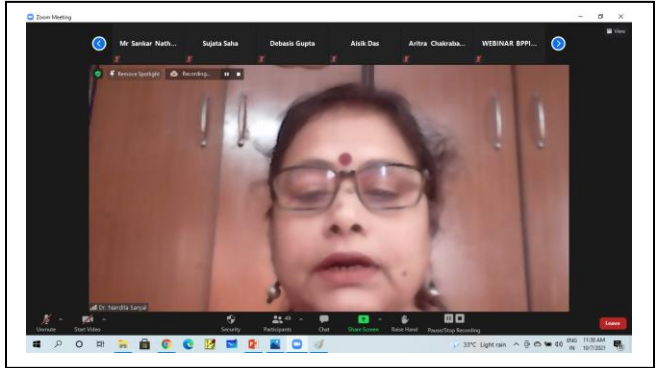
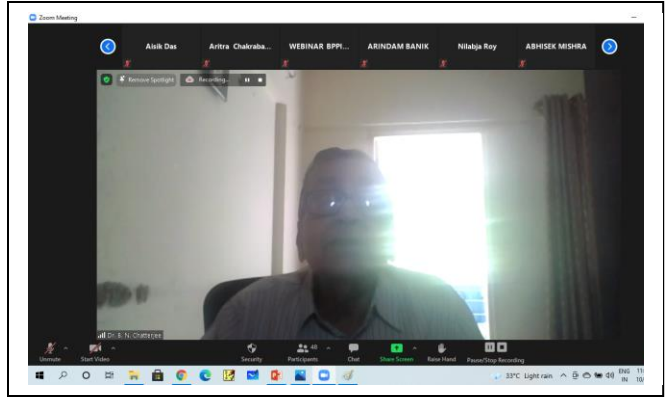
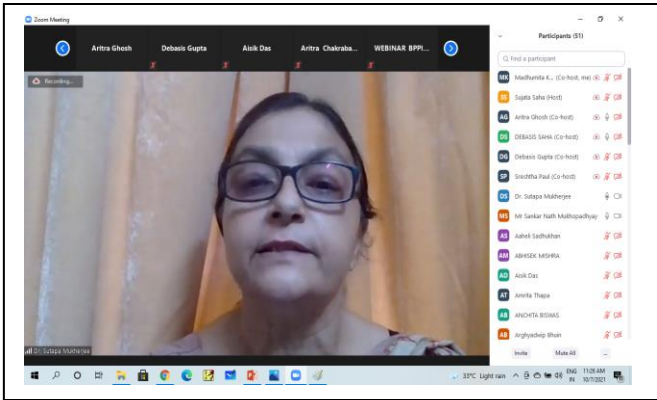
Session 5 (From 11am to 2pm): IOT using Raspberry Pi: Remote weather monitoring station, Web based LED lighting control using Raspberry Pi, Setting up a remote webcam server using Raspberry Pi

Speaker: Mr. Saptak Bhattacharya, Ph.D. Research Scholar, IEST, Shibpur

Session 6 (From 4pm to 6pm): Internet of Things with NodeMcu

Speaker: Mr. Tunir Saha, alumnus of Department of Electrical Engineering, BPPIMT

Conveners Ms. Madhumita Kundu Mondal and Sujata Saha, Coordinator Mr. Aritra Ghosh, Technical Committee Members Mr. Subhasish Das and Mr. Argha Kamal Pal undertook an enormous effort to organize such interactive and informative workshop.



Internet of Things

The Internet of Things (IoT) refers to a system of interrelated, internet-connected objects that are able to collect and transfer data over a wireless network without human intervention.

Our planet has more connected devices than people. Home Automation already comprises 50%.

<https://studiousguy.com/examples-internet-of-things/>
<https://www.scribd.com/what-is-iot/>

INTERNET OF THINGS APPLICATIONS

HOME CONSUMER	TRANSPORT MOBILITY	HEALTH BODY	BUILDINGS INFRASTRUCTURE	CITIES INDUSTRY
<ul style="list-style-type: none"> Light bulb Security Air Purifier Navigation Controller Smoke Alarm Refrigerator Refractometer Washer / Dryer Stove Energy Monitoring 	<ul style="list-style-type: none"> Traffic routing Intelligent Package Monitoring Smart Parking Insurance Adjustments Smart Chain Shipping Public Transport Autism Energy Monitoring 	<ul style="list-style-type: none"> Patient Care Energy Monitoring Remote Diagnostic Equipment Maintenance Hospital Hygiene Risk Mitigation Food Sensors 	<ul style="list-style-type: none"> HVAC Security Lighting Electrical Water Structural Alerts Structural Integrity Disaster Energy Credits 	<ul style="list-style-type: none"> Electrical Distribution Maintenance Surveillance Signage Utilities / Smart Grid Emergency Services Waste Management

Certificate of Appreciation

IS PRESENTED TO

Mr. Saptak Bhattacharya

FOR SHARING HIS VALUABLE INSIGHTS AND INSPIRING THE STUDENTS IMMENSELY

IN

2 DAY WORKSHOP ON RASPBERRY PI & IOT, FOR INTERNET OF THINGS (IOT)

FROM 7TH - 8TH OCTOBER, 2021

ORGANIZED BY

IET On Campus BPPMT
 Department of Electrical Engineering
 B.P.Poddar Institute of Management and Technology

The Internet of things is the inter networking of physical devices, embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data.

RMUs - FRTUs - FPIs

Dr. Sutapa Mukherjee

Madhmita Kum...

Antra Ghosh

Antra Thapa

Antra Das

ANCHITA BHOWM

ARINDAM BANIK

Antra Chakrabarti

CHANDRANI DAS

