Bhoj Reddy Engineering College for Women
Department of Information Technology

12 April 2022

Schedule for Workshop on "Internet of Things"

Day 1

Session	TIME	Topics
1	10:00-11:30am	Introduction on IoT , Setting up Hardware for programming
11:30-11:40 BREAK		
2	11:40-01:00pm	Functional testing on devices Exporting display to other system using raspberry pi
01:00-01:30pm Lunchbreak		
3	01:30-03:00pm	GPIO Programming using Development Boards ON/OFF Control Based on Light Intensity
03:00-03:10 Break		
4	03:10-04:30pm	Battery range Indicator project ,buffer time to complete all the projects for the day

Day 2

Session	TIME	Topics
1	10:00-11:30am	Dice Game Simulation Project using Devices
11:30-11:40 BREAK		
2	11:40-01:00pm	Displaying Rss News feed on Display Interface Porting openwrt to the device
01:00-01:30pm Lunchbreak		
3	01:30-03:00pm	Hosting website on Raspberry pi board
03:00-03:10 Break		
4	03:10-04:30pm	Webcam Server and Fm station projects using raspberry pi device

Day 3

Session	TIME	Topics
1	10:00-11:30am	Introduction on IoT , Setting up Hardware for programming
11:30-11:40 BREAK		
2	11:40-01:00pm	Functional testing on devices Exporting display to other system using raspberry pi
01:00-01:30pm Lunchbreak		
3	01:30-03:00pm	Gpio programming using Development Boards ON/OFF Control Based on Light Intensity
03:00-03:10 Break		
4	03:10-04:30pm	Battery range Indicator project ,buffer time to complete all the projects for the day

Day 4

Session	TIME	Topics
1	10:00-11:30am	Dice Game Simulation Project using Devices
11:30-11:40 BREAK		
2	11:40-01:00pm	Displaying Rss News feed on Display Interface Porting openwrt to the device
01:00-01:30pm Lunchbreak		
3	01:30-03:00pm	Hosting website on Raspberry pi board
03:00-03:10 Break		
4	03:10-04:30pm	Webcam Server and Fm station projects using raspberry pi device

Bhoj Reddy Engineering College for Women
Department of Information Technology

A Two-day Workshop
on

Internet of Things

For III IT A (18-19 April 22) and B (20-21 April 22) students
Organized by
Department of Information Technology
In Collaboration with
Edutech Innovations, Hyderabad

Program Schedule for the Inaugural Function

Date: 18 April 2022   *Venue: IT Lab- I (SB-216)*

S.no	Time	Speaker
1	9:45-9:50	Welcome note by T Chandana, IT
2	9:50-9:55	Address by HOD-IT, Dr C Murugamani
3	9:55-10:00	Key note address by Coordinator Maya Dhone
4	10:00-10:05	Key note address by Resource Person Mr. Kalyan, Edutech Innovations
5	10:05:10:10	Vote of Thanks by Cefhora, IT
6	10:20	Session starts

Bhoj Reddy Engineering College for Women
Department of Information Technology

27 April 2022

<u>Report on "Internet of Things"</u>

IT Department has organized a Two-day workshop on "Internet of Things" for III B Tech IT-A & B on 18-19 and 20-21 April 2022. 124 students got registered. The workshop was scheduled between 09:30 to 16:30 Hrs. The resource team for the workshop were from Edutech Innovations, Hyderabad.

The first day (18 April 2022) of the workshop started with an inaugural function attended by the IT-HOD, Workshop in-charge, resource persons from Edutech Innovations, IT staff and III IT A students. The venue was IT Lab-I. In the inaugural Session IT-HOD enlightened the students with the knowledge of IOT in the ongoing world. Later Mr. Kalyan, Resource person Edutech Innovations, described the importance of IOT. After that in the first session he explained students about Linux commands and why it is used for IOT projects, Introduction to Raspberry pi and its components and installation of operating system into Raspberry pi. After the lunch break the afternoon session of the workshop was delt with Exporting Display on to other systems and introduction on how to launch a website on server using Raspberry pi.

On second day (19 April 2022) of the workshop, Forenoon session started with Hosting a Website on Board and Interfacing the regular USB webcam with the system and turn it into functional IP webcam. The afternoon session was on Displaying RSS news Feed on Display

Interface, FM Transmission, Introduction to Arduino Board and Dice Game Simulation where he explained, instead of using conventional dice, how we make use of LDR sensors to randomly generate a number and display it using 16x2 LCD.

Same sessions were conducted for III IT B on 21st and 22nd April 2022.

At the end of session Dr. C Murugamani (HoD-IT) interacted and took feedback with Edutech Innovations team, students, and faculty. Certificates of participation were given to each of the students and the session concluded with vote of thanks by Ms. T Prathyusha (III IT B Student).

Section	Date	Number of students Registered	Number of students present	No. of students absent (HT. No)
1	2	3	4	5
III IT-A	18 April 2022	60	FN-60 AN-60	NIL
	19 April 2022		FN-60 AN-60	NIL
III IT-B	20 April 2022	64	FN-63 AN-63	01
	21 April 2022		FN-63 AN-63	01

The following faculty members coordinated in smooth conduction of workshop:

Dates of Conduction	Teaching Staff	Non- Teaching Staff
1	*2*	*3*
18 and 19 April 2022	Maya Dhone M Sandhya Rani D Navaneetha T Sudha G Geeta Devi Md Shakeel Shaista Sayeed	B Rajeshwar Rao Revathi
20 and 21 April 2022	Maya Dhone G Jyothi Ishrat Nausheen A Vasavi Sujatha Md Shakeel Shaista Sayeed	B Rajeshwar Rao Revathi

Maya Dhone   C Murugamani   J Madhavan
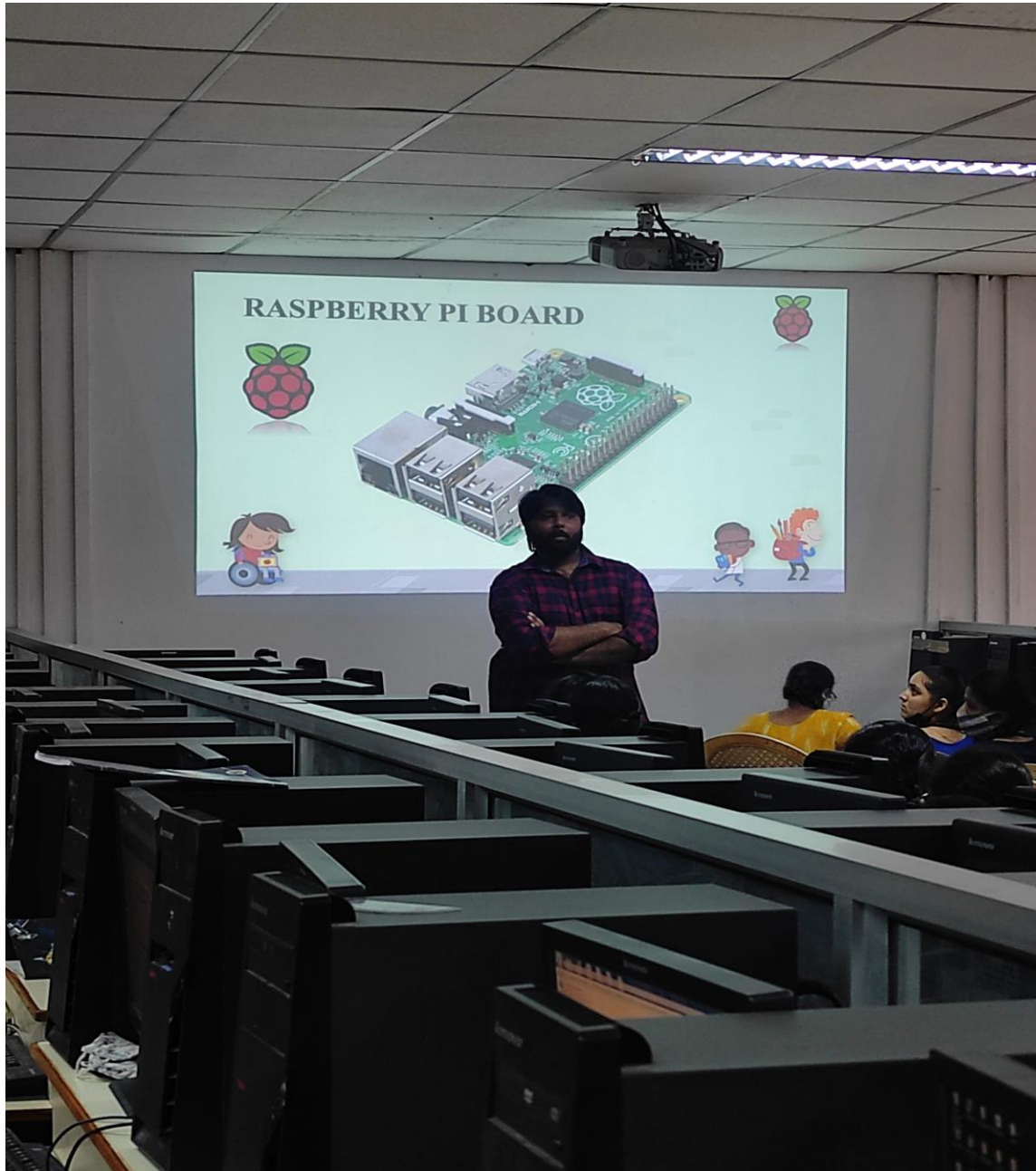Seminars & Workshops In-charge   HoD-IT   Principal

Inaugural Function

Day 1 Afternoon Session

Day 2 Afternoon Session

Day 3 Forenoon Session

Day 3 Afternoon Session

Day 4 Forenoon Session

Day 4 Afternoon session

Day 4 Valedictory function