



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaavi)

Date: 25-07-2023

Report on Student Development Programme on “Hands-on Session on Raspberry Pi”

Name of the Program:	Hands-on Session on Raspberry Pi.	Program Dates & Timings:	22-07-2023 & 9.00 AM to 4.30 PM		
Name & Details of the Resource Person:	GK Bhat Kakunje CEO & Managing Director Kakunje Software Private Limited				
Organized by (Clubs/ Dept.)	IOT Club & Dept. of CSE	In Association with	CSI		
Number of Participants	66	Students	66	Faculty	1
Program Outcome (PO) Mapping	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11, PO12				
Coordinators	Mrs. Snitha Shetty, IoT Club & CSI Coordinator, Assistant Professor, Department of CSE				

About the Program:

The IoT Club in association with CSI organized a student development Programme on “**Hands-on Session on IOT-ESP32 and Raspberry Pi**”. The event was scheduled on 22-07-2023 from 9:00 am to 4:30 pm at Computing lab 6, third floor.

The Resource person of the program was **GK Bhat Kakunje**, CEO & Managing Director, Kakunje Software Private Limited and **Ravishankara** Web Developer, Kakunje Software Private Limited

The students were given a brief introduction on the following topics

- Introduction to Arduino IDE
- Creating a Simple ESP32 Web Server in Arduino IDE
- Introduction to Raspberry pi.

The following courses were discussed by the participants

- Installing OS in Raspberry pi.
- Creating python IDE in Raspberry pi.

After the course the following quests were discussed

- Arduino IDE – intended for those who are familiar with Arduino
- Espruino – JavaScript SDK and firmware closely emulating Node.js
- Mongoose OS – An operating system for IoT devices that is recommended by Espressif Systems and Google Cloud IoT
- MicroPython – Implementation of Python 3 for microcontrollers
- Raspberry pi-Introduction and installing operating System

Objectives

- Creating a simple ESP32 web server in the Arduino IDE
- Accessing the Web Server in AP Mode
- Accessing the Web Server in STA Mode
- Installing OS in Raspberry pi

Outcomes:

- Installed OS in Raspberry pi and implemented python IDE.
- Developed a live application project on LED bulb.

Articulation Matrix:

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	2				3	2						
2		3							3	2	2	1
3	3	1	2	2					3		2	1
4					2	1			2	3	2	
Average	2.5	2	2	2	2.5	1.5			2.7	2.5	2	1

Photos:



Mrs. Snitha Shetty
IOT Club & CSI Coordinator

Dr. Antony P J
Vice-Principal

Dr. Shantharama Rai C
Principal

