

Date: 23-11-2024

Two Day Workshop on "Building Smart Solutions with IOT"

Name of the Program:	Two Day Workshop on "Building Smart Solutions with IOT"	Program Timi	Dates & ings:	22-11-2024 & 23-11-2024 9.00 am to 5.00 pm				
	Prof. Ajay Prinston Pinto							
Name & Details of the Resource Person:	Asst. Professor, Dept. of AI & DS, SIT, Valachil, Mangalore							
	Prof. Padma Prasad							
	Asst. Professor, Dept. of AI & DS, SDMIT, Ujire							
Organized by (Clubs/Dept.)	Department of Information Science and Engineering	In Association with Club		Skill Lab-IoT and Development Club				
Number of Participants	59	Students	50	Faculty	9			
Program Outcome (PO) Mapping	PO1, PO2, PO3, PO4, PO5, PO11,							
Coordinators	Mr. Sayeesh and Mrs.Arpitha G							
Faculty Participated	Dr.John Prakash Veigas, Dr. Lokesh M.R., Mr. Rakesh M.R., Mrs. Sharanya P.S., Mrs. Divya, Mrs. R. Sahaya Shamini, Mrs. Archana Priyadarshini, Mrs.Arpitha G, Mr. Sayeesh							

About the Workshop

A workshop on "Building Smart Solutions with IoT" typically focuses on introducing participants to the world of the Internet of Things (IoT), teaching them how to design, implement, and deploy IoT solutions for real-world applications. The workshop may involve a blend of theoretical learning and hands-on projects, covering topics such as IoT architecture, sensors, data communication, cloud platforms, and the integration of smart devices.

What is Smart Solution with IoT?

Smart solution with IoT (Internet of Things) refers to the integration of physical devices (smart objects) with sensors, software, and connectivity to collect, exchange, and analyse data, enabling them to perform tasks or make decisions autonomously, or in response to external inputs. These solutions are designed to improve efficiency, enhance user experience, and optimize operations in various domains such as homes, industries, healthcare, agriculture, transportation, and more.

Building Smart Solution with IoT:

Building a **smart solution with IoT** (**Internet of Things**) involves several steps, from conceptualizing the problem and selecting appropriate devices to integrating sensors, networking, and cloud platforms, to deploying and managing the system. Whether you're building a smart home, a health monitoring system, or an industrial IoT solution, the basic principles and process remain similar.

Here's a step-by-step guide to building a smart IoT solution:

- Identify the Problem and Define the Goal
- Choose the Right IoT Devices and Sensors
- Design the IoT Architecture
- Develop Data Processing and Analytics
- Implement Automation and Control
- Create the User Interface (UI)
- Integrate IoT Security
- Test the System
- Deploy the IoT Solution
- Monitor and Maintain

Building a smart solution with IoT involves integrating physical devices with sensors, networking, cloud computing, and data analytics to provide automated, data-driven decision-making. By following the steps above, we can create IoT systems that solve real-world problems, enhance user experiences, and improve efficiency across various industries and applications.

About the Program:

Agenda:

Sl No.	Торіс	Speaker			
1	Welcome note and Introductions	Ms. Reena, II Year ISE			
2	Prayer Song	Ms. Vidhatri Bhat and Group, II Year ISE			
2	Lighting the Lamp	Speaker, Dean, HOD, Faculty Coordinator and Students			
3	Guest Introduction	Ms. Pratheeksha, II Year ISE			
4	Two Day Workshop on "Building Smart Solutions with IOT"	Prof. Ajay Prinston Pinto Prof. Padma Prasad			
5	Vote of Thanks	Ms. Pahima Uchil, II Year ISE			

The Department of Information Science and Engineering in organized Two Day Workshop on "Building Smart Solutions with IOT" on 22-11-2024 and 23-11-2024

Objectives: The program on enable students/ faculty to

- Focuses on imparting hands-on knowledge and skills for leveraging the Internet of Things (IoT) technologies to create innovative and efficient solutions.
- To learn the importance of IoT hardware and software
- To understand both technical and practical aspects of IoT.

Outcomes:

- Students will learn IoT fundamentals, including its components (sensors, actuators, microcontrollers), architecture, and communication protocols.
- Students will able to design and build basic IoT applications, including integrating sensors, actuators, and communication modules.
- Students will have gained insights into the broader IoT ecosystem, including cloud services, edge computing, AI integration, and emerging trends such as 5G connectivity and machine learning for IoT.

Articulation Matrix:

Course	Program Outcomes											
Outcomes	1	2	3	4	5	6	7	8	9	10	11	12
1	2	2	1	1	1						1	
2	2	2	1	1	2						1	
3	2	2	1	2	2						1	
Average	2	2	1	1.3	1.6						1	

Glimpses of Event:







Coordinator

HOD

Principal