K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Session on IoT Ideathon Workshop

Date of Conduction: 22nd November 2023

Venue: K.S Institute of Technology, Bengaluru

Session 1: 9:30 am to 12:30 pm

Session 2: 1:30 pm to 4:30 pm

Duration: 06 Hours

Sponsoring Bodies / Associating Organization: NIL

Name: Ms. Bhavani Sankari V

Designation: Trainer

Organization: Cranes Varsity

Profile: Ms. Bhavani Sankari V a domain expert, corporate trainer in the field of Data Science and IoT having 5 years of Strong technical expertise in consulting and training. Expert in Data Science, Python, Machine Learning, Data Analysis and Visualization, Deep learning, and IoT. A Trainer has trained around 3500 Man hours of training experience and successfully trained around 1000 engineering graduates and working professionals in Linux and IoT. A Trainer is Proficient in working on Raspberry Pi, Arduino, Microcontrollers, IoT, Linux, and Device Drivers. A Trainer has conducted Successful Training on Basic and Advanced Level Python Programming, Python Unit Testing, IoT Edge Node & Gateway, Linux and device drivers etc

Description of the Event: The event began with the Trainer Ms. Bhavani Sankari V being welcomed by HoD of Artificial Intelligence and Machine Learning, Dr. Vijayalaxmi Mekali.

Session 1: The Trainer Ms. Bhavani Sankari V, started the session with the basic fundamental concepts of IoT, Importance of IoT where participants were encouraged to come up with their own understanding. The Trainer discussed about the Technologies that makes IoT Possible. The Trainer later on gave an insight on examples of real time applications on IoT.

The Trainer gave description on the risks and the challenges involved in IoT and the future of IoT. The students were given an information on the types of the sensors used for developing an IoT Project. The Session on IoT Ideathon workshop was a brainstorming session where students gained knowledge on IoT fundamentals, gave an idea for solving problems in IoT and to build projects on IoT and the students were encouraged to build their careers in these fields by adding a touch of innovation and novelty which could impact the society in a positive approach. Students were asked to find the ideas on project and to present it in the session 2.

Session 2: Students have formed a group of around 4 to 5 and came with the idea of IoT Project and gave presentation on the same. The list of the project is as follows.

Sl. No	IoT Projects Idea
1	Home Automation
2	Health Monitoring System
3	Gas Leak Detection
4	Visitors Counter
5	Home Security System
6	Smoke Detection
7	Smart Parking Automation
8	Smart Door Lock System
9	Wifi Rover
10	Smart Waste Management
11	Motion Detector
12	Automation for Smart Accessibility
13	Security Breach Alert System
14	Smart Irrigation System

Objectives / Key Highlights:

- To provide students an insight into solving problems on IoT.
- To encourage students to come up with the ideas for the given problem integrating IoT and AI.

Participant details - No. of Participants: 67

Students (internal/external): Internal

Photos (Geo Tagged) :

Figure 1: A Session on IoT

Figure 2: A Session on Ideathon Workshop

Event Outcomes :

EO#	EVENT OUTCOMES
EO1	Understanding the fundamentals of IoT Concepts and its components such as sensors, actuators, connectivity and data processing.
E02	Understanding the applications of IoT in various domains like healthcare, agriculture, Industrial automation.
E03	Develop skills to design and implement a basic IoT Project considering factors like cost, scalability and utility.

EO/PO&PSO mapping

EO/PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
EO1	2	2	2	-	-	2	2	-	2	-	-	2	1	1
EO2	2	2	2	-	-	2	2	-	2	-	-	2	1	1
EO3	2	2	2	-	-	2	2	-	2	-	-	2	1	1

3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
-	No Correlation

PO's attained: PO1, PO2, PO3, PO6, PO7, PO9, PO12

PSO's attained: PSO1, PSO2

Internship Coordinator

HOD

Head of the Department
Artificial Intelligence & Machine Learning
K.S. Institute of Technology
Bengaluru - 560 109

Principal

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
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