RajaRajeswari College of Engineering

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Department of Computer Science & Engineering
[IoT, Cybersecurity including Blockchain Technology]

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Report of event for Student Development Program on "Internet of Things"

Name of the Department: Dept. of CSE [IoT, Cybersecurity including Blockchain Technology]

1. **Type of Event:**   Event on "Internet of Things"

2. **Venue:**   Room 107, 1st Floor, RRCE, Bangalore

3. **Date & Time:**   14.10.2024 and 15.10.2024 9.30AM to 4.00PM

4. **Resource Person:**   Dr. Manjunath M, IoT Engineer, Ejuket

5. **Staff Coordinators:**   All the Staff Members

6. **Students attended:**   3rd Semester (63 students)

7. **Outcome of the Progamme:**

SDP Objectives:

- To enhance the technical skills in Internet of Things domain

- Make the awareness about modern Internet of Things tools and methodologies

- Get the knowledge in current Internet of Things research domain and its application

- Impact professional practice relevant to technical education.

- Channelize the development with respect to academic qualifications and training to develop the project prototypes.

SDP Outcomes:

On completion of SDP the Students will be able to,

1. The SDP provides a platform for students to enhance their skills and integrate in advanced IoT concepts into their fundamental courses.

2. Build real time projects to contribute towards the Internet of Things.

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3. By the end of the "Internet of Things (IoT) Developer" course, students will possess advanced proficiency in identifying and troubleshooting electronic components, operating measurement devices, and assembling circuits using breadboards and veroboards.

4. They will have mastered soldering, de-soldering, and PCB troubleshooting techniques essential for electronics development. In IoT, students will demonstrate expertise in microprocessor and microcontroller programming with Arduino using embedded C, effectively interfacing with sensors and actuators to develop sophisticated IoT projects like smart streetlights, home automation systems, and digital locks.

5. Moreover, students will leverage the Raspberry Pi for IoT applications, becoming proficient in Python programming, sensor and actuator integration, and overall system development, preparing them for careers in IoT development and innovation.

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(B)
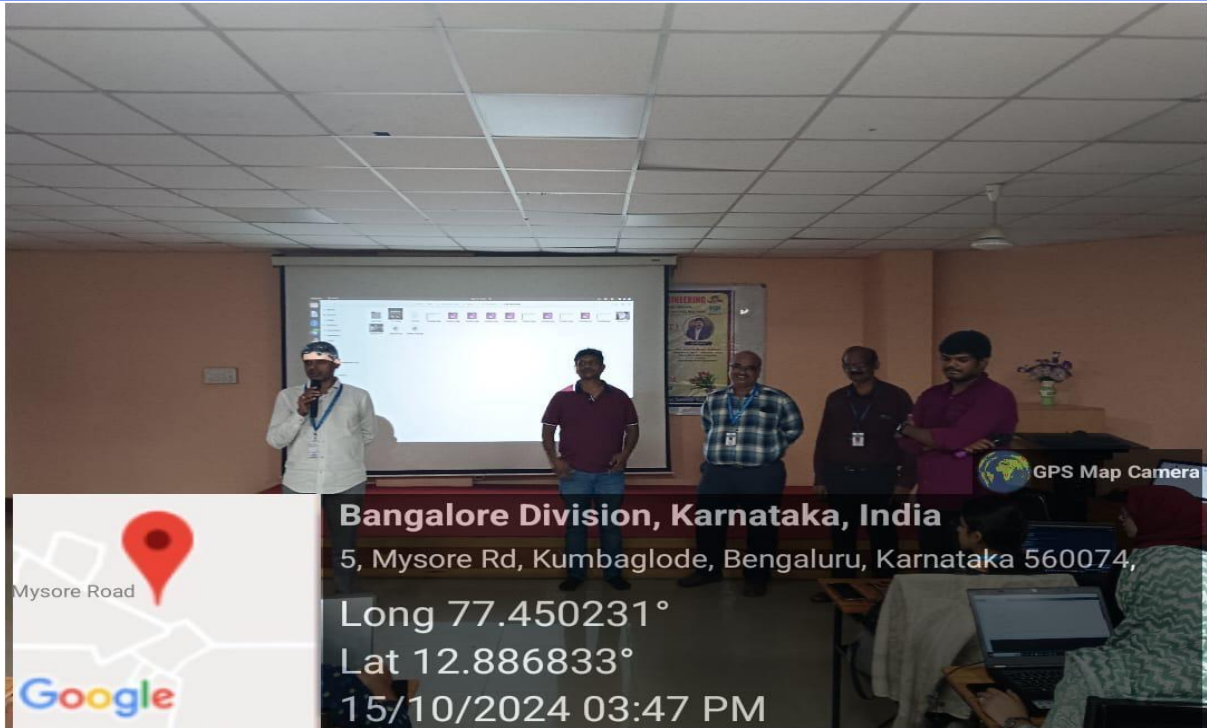

(C)

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The Figures (A), (B), (C), (D), (E), (F), (G), (H), (I), (J), (K), (L), (M), (N) are samples of SDP photos in presence of Dr. Shashidhar V-HoD, Dr. Manjunath M-Resource Person, Faculty members and 3rd Semester Students