# SESHDRI RAO
# GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
SeshadriRao Knowledge Village,Gudlavalleru–521356, Krishna (Dt), AP, India

A

Report on

## Self Driven Activity

In view of

## Workshop on Empowering IOT with Roseberry PI

**"Innovation"**

**Thrust area: Validation and Innovation & Business Model Development**

**On**

**19th to 20th March2024**

By

**SRGEC TECHDOC**

**Innovation and Incubation cell**

For the Academic Year

**2023-24**

Quarter-III

Semester-II

Ministry of Education Government of India | MoE's INNOVATION CELL (GOVERNMENT OF INDIA) | INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative) | AICTE

| Semester 2 | **Thrust area: Validation and Innovation & Business Model Development**<br><br>**Quarter-III** |
|---|---|
| **Theme** | Innovation |
| **Activity Name** | Workshop on Empowering IOT withRoseberry PI |
| **Mode of Conduct** | Offline |
| **Time** | Two Days,**19th to 20th March** |
| **Participants** | Students:72 Attended<br>Faculty:9 Attended |

**Objective:**

The workshop aims to empower participants with the knowledge and skills to leverage Raspberry Pi for IoT applications, fostering innovation and practical implementation in IoT projects.

**Exemplary:**

From the 19th to the 20th of March 2024, Dr. B. Mahesh Babu, the Innovation Coordinator of IIC, SRGEC, and Ms. N. Gowthami, a respected faculty member specializing in IoT, co-facilitated a transformative workshop titled "Empowering IoT with Raspberry Pi." This self-driven activity provided participants with a unique opportunity to delve into the realm of Internet of Things (IoT) and harness the capabilities of Raspberry Pi for innovative projects and applications.

Throughout the workshop, Mr. Baradwaj Arvapalli, Co-founder, AB Tech Ville guided participants through the intricacies of IoT architecture and the versatility of Raspberry Pi as a cost-effective and powerful computing platform. From basic concepts to advanced techniques, attendees gained a comprehensive understanding of how Raspberry Pi can be utilized to collect, process, and transmit data in IoT ecosystems.

Practical sessions and hands-on activities were integral components of the workshop, enabling participants to gain firsthand experience in configuring Raspberry Pi devices, interfacing sensors and actuators, and developing IoT applications. Through guided exercises and project-based learning, attendees had the opportunity to explore various IoT scenarios, from home automation to environmental monitoring, and implement solutions using Raspberry Pi.

Furthermore, the workshop fostered a collaborative learning environment, with participants encouraged to exchange ideas, troubleshoot challenges, and brainstorm innovative IoT projects. Mr. Baradwaj Arvapalli, Co-founder, AB Tech Ville provided mentorship and guidance, empowering attendees to overcome obstacles and unleash their creativity in leveraging Raspberry Pi for IoT innovation.

By the conclusion of the workshop, participants emerged equipped with the knowledge, skills, and confidence to embark on their IoT journey with Raspberry Pi. Mr. Baradwaj Arvapalli, Co-founder, AB Tech Ville exemplary leadership and expertise played a pivotal role in facilitating an event that not only imparted valuable insights but also inspired participants to push the boundaries of IoT innovation and make meaningful contributions to the field.

The event garnered an overwhelming response from both students and faculty members, reflecting the collective dedication towards promoting environmental consciousness and sustainable development. The Principal, Dr. B. Karuna Kumar, and the IIC President, along with the Vice Principal - Academics, Dr. M.R.Ch. Sastry, expressed their heartfelt appreciation to the entire IIC team, for orchestrating such a successful event.

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