



B.M.S COLLEGE OF ENGINEERING

Autonomous Institute, Affiliated to VTU

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(IOT & CYBERSECURITY WITH BLOCKCHAIN TECHNOLOGY)**

STUDENT DEVELOPMENT PROGRAM

Mastering ESP32: From Blinking LEDs to smart cloud connectivity

BMS COLLEGE OF ENGINEERING
DEPARTMENT OF CSE (IOT AND CYBERSECURITY INCLUDING BLOCKCHAIN)

PRESENTS

MASTERING ESP32

FROM BLINKING LEDs TO SMART CLOUD CONNECTIVITY

SPEAKER:
Dr. Badari Nath K,
Industry Consultant,
Consultant to Microlab Instruments,
Robotic Entertainment

DATE:
2nd July 2024

TIMINGS:
09:00AM - 05:00PM

COORDINATOR:
Manjula M
Assistant Professor

CONVENOR:
Dr. Nagarathna N
Professor & HOD

OBJECTIVES:

- Enhance practical skills and foster innovation among students, particularly in the IoT branch.
- Offer practical insights into ESP32 with cloud connectivity technology as part of a Student Development Program.
- Provide hands-on experience with ESP32 to enable students to apply theoretical knowledge in practical scenarios.
- Facilitate interactive learning under the guidance of Dr. Badari Nath K, leveraging his expertise in ESP32 with cloud connectivity technology.
- Promote experimentation and exploration of ESP32 capabilities to broaden students' understanding of its applications in the IOT domain.

DATE – TIME:

- Date: 2nd July 2024
- Time: 9:00 AM to 5:00 PM

VENUE:

- PJ Block lab, 6th floor, Department of CSE(ICB)

FACULTY COORDINATOR:

- Ms. Manjula M

PARTICIPANTS:

- Students of 4th Semester, Dept. of CSE(ICB)

DESCRIPTION:

- The department of CSE(ICB) conducted a Hands-On Workshop on “**Mastering ESP32: From blinking LEDs to smart cloud connectivity**”, 2nd July 2024 from 9:00 AM to 5:00 PM. The Workshop was led by Dr. Badari Nath K, an esteemed Industry Consultant at Microlab Instruments, Robotic Entertainment renowned for his expertise in the field. Under the expert guidance of Dr. Badari Nath K, students were encouraged to experiment and innovate, fostering a dynamic and interactive learning environment. The workshop provided a platform for attendees to enhance their skills and deepen their understanding of ESP32, empowering them to tackle real-world challenges with confidence. Participants were equipped with essential resources, including ESP32 kits, programming tools, and instructional materials, enabling them to fully immerse themselves in the learning experience. By offering practical insights and experiential learning opportunities, the workshop served as a catalyst for student development and innovation within the department. At its core, the ESP32 Workshop underscored the importance of hands-on learning in empowering students to excel in the ever-evolving field of technology. By providing a solid foundation in ESP32 fundamentals, the workshop prepared attendees to navigate the complexities of modern computing and emerge as proficient and resourceful technologists in their respective domains.

OUTCOMES:

- Attendees gained hands-on experience, honing skills in circuit design, programming, and application development.
- Participants developed a better grasp of IOT concepts and ESP32’s real-world applications.
- Interactive sessions spurred creative thinking, empowering students to explore novel solutions.
- Armed with new knowledge, attendees felt more confident in navigating technological challenges.
- The workshop fostered collaboration among peers and faculty, strengthening the department's community bonds.
- The workshop showcased the department's dedication to student growth and innovation.
- Practical experience with ESP32 equipped students to excel in a rapidly evolving tech landscape.

PHOTOS:

