



RV Educational Institutions

RV Institute of Technology and Management®
Bangalore – 560076

Department of Computer Science and Engineering

Event Name	Workshop on IoT and its Applications
Date	19 th - 20 th April 2024
Venue	L315, RVITM
Audience	8 th semester students
Resource person(s)	1. Mr. Mahesh Deginal, Managing Director and CEO, Karunada Technologies Pvt Ltd. 2. Mr. Harish N, CTO and Co-Founder, Karunada Technologies Pvt Ltd.
Faculty Coordinator(s)	Dr. Anitha J and Prof. Sudheendra B S

Objective of the Program:

On the 19th and 20th of April 2024, the Computer Science and Engineering department of RV Institute of Technology and Management (RVITM) hosted a technical workshop on IoT and its Applications. The IoT workshop provided a comprehensive understanding of the evolving IoT landscape, the key technical and business considerations, and the immense potential of IoT technologies to transform various industries and enable new capabilities.

Topics Covered:

Mr. Mahesh Deginal, Managing Director & CEO and Mr. Harish N, CTO & Co-founder at Karunada Technologies Pvt Ltd., delivered an informative session covering various aspects of IoT. Here are the key highlights of their presentation:

1. **Practical IoT Hardware Exposure:** Mr. Harish N offered a deep dive into the practical implementation of IoT systems, allowing students to work directly with hardware components and development boards. This hands-on experience gave attendees a tangible understanding of the inner workings of IoT devices and the challenges involved in integrating various hardware elements.
2. **Arduino Programming Proficiency:** The presenter leveraged the Arduino platform, popular open- source electronics prototyping board, to provide everyone with a solid foundation in embedded programming. He also discussed and highlighted how to write, compile, and upload Arduino sketches, gaining the ability to control and integrate various IoT components through intuitive software development.

3. **Holistic IoT System Development:** Mr. Harish took a holistic approach, guiding everyone through the end-to-end process of developing an IoT system, from hardware setup and communication protocols to software programming and data management. He deep dived teaching to interface sensors with microcontrollers, writing code to read and interpreting the sensor data, and developing strategies for data aggregation and analysis.
4. **Sensor Integration and Data Acquisition:** Another key aspect point of the workshop involved the integration of sensors, such as the DHT11 temperature and humidity sensor, to demonstrate the collection and processing of real-world data. Mr. Harish elucidated how these individual elements work together to form a cohesive IoT ecosystem, setting the stage for the hands-on activities.

Brief Report:

The technical workshop on IoT and its Applications provided valuable insights into the cutting-edge technologies driving modern analytics and IoT technology initiatives. Mr. Harish N and Mr. Mahesh Deginal's presentation offered attendees a deeper understanding of IoT system design, hardware integration, and the practical implementation of IoT technologies. The skills and knowledge gained during this workshop will empowered everyone to confidently navigate the evolving IoT landscape and translate their ideas into tangible, innovative IoT solutions.



Day1 of workshop



Day1 of workshop



Day2 of workshop



Day2 of workshop

Coordinator Signature

HOD's Signature