



Rajarajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi ,
Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)
Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST



Department of Computer Science and Design

Report on Career Guidance program on “workshop about IOT World.”2024

NAME OF THE DEPARTMENT: Department of Computer Science and Design

1. Type Event : Career Guidance program on “Stepping inside into the IoT World.”

2. Venue : Arya Bhatta Seminar Hall

3. Time : 08:30am to 10:30pm

4. Chief Guest : Mr.Deeraj.C
Assistant Professor,MCA Department
Bengaluru

5. Staff Coordinators : Dr. M.Selvi,
Professor and Head
Department of Computer Science and Design
RajaRajeswari College of Engineering

Mrs.Rubithra A
Assistant Professor
Department of Computer Science and Design
RajaRajeswari College of Engineering

6. Dates of the programme: Thursday 12th Sep 2024.

7. Students attended : 2nd year students of CSD Department

8. Outcome of the programme:

Students gained information about the following:

1. Addressed the students about the importance of IOT World.
2. Job opportunities.



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- **IoT Hardware Engineer:**
 - **Role:** Design and develop the physical components of IoT devices, such as sensors, processors, and communication modules. This role includes prototyping and testing hardware components.
 - **Skills:** Expertise in electronics, circuit design, and hardware integration.
- **IoT Network Engineer:**
 - **Role:** Manage and optimize the communication networks that connect IoT devices. Responsibilities include ensuring network security, reliability, and scalability.
 - **Skills:** Knowledge of networking protocols, wireless communication, and network security.
- **IoT Security Specialist:**
 - **Role:** Focus on securing IoT systems and devices against cyber threats. Tasks include implementing security measures, conducting vulnerability assessments, and developing security policies.
 - **Skills:** Experience in cybersecurity, cryptography, and knowledge of security standards and best practices.
- **IoT Product Manager:**
 - **Role:** Oversee the development and launch of IoT products. This role involves managing the product lifecycle, coordinating with cross-functional teams, and defining product requirements based on market needs.
 - **Skills:** Strong project management, market research, and strategic planning abilities.
- **IoT Systems Engineer:**
 - **Role:** Integrate and manage the various components of IoT systems, ensuring that devices and applications work together seamlessly. This role involves troubleshooting and optimizing system performance.
 - **Skills:** Systems integration, problem-solving, and knowledge of IoT protocols and standards.
- **IoT Business Development Manager:**
 - **Role:** Identify and pursue business opportunities related to IoT solutions. This role involves building partnerships, developing business strategies, and driving growth.
 - **Skills:** Sales expertise, strategic thinking, and understanding of IoT market trends.
- **IoT Consultant:**

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- **Role:** Advise companies on how to implement and optimize IoT solutions. This involves assessing client needs, recommending appropriate technologies, and guiding project execution.
 - **Skills:** Industry expertise, consulting experience, and technical knowledge of IoT solutions.
-
3. • **Smart Homes:** Smart thermostats like Nest adjust temperatures automatically, smart lighting systems such as Philips Hue enable remote control and scheduling, and security systems with smart locks and cameras enhance home protection.
 4. • **Healthcare:** Wearable devices monitor health metrics, remote patient monitoring systems track vital signs for continuous care, and smart pills with embedded sensors ensure medication adherence.
 5. • **Agriculture:** Precision farming uses sensors to optimize crop yields and resource use, while livestock monitoring devices track animal health and location.
 6. • **Smart Cities:** Traffic management systems adjust signals to reduce congestion, smart bins optimize waste collection, and environmental sensors monitor air and water quality.
 7. • **Industrial IoT (IIoT):** Predictive maintenance reduces downtime by forecasting equipment failures, and supply chain management improves logistics and inventory tracking.
 8. **Energy Management:** Smart grids enhance electricity distribution efficiency, and energy-efficient building systems control heating, cooling, and lighting based on usage patterns.
- **Healthcare:**
 - **Wearable Devices:** Fitness trackers and smart watches monitor health metrics like heart rate, activity levels, and sleep patterns.
 - **Remote Patient Monitoring:** Devices that track vital signs and send data to healthcare providers for ongoing monitoring.
 - **Smart Pills:** Pills with embedded sensors can track medication adherence and send data to healthcare providers.
 - **Agriculture:**
 - **Precision Farming:** Sensors and IoT devices monitor soil conditions, weather, and crop health to optimize farming practices.
 - **Livestock Monitoring:** Wearable sensors track the health and location of animals, providing insights into their well-being.

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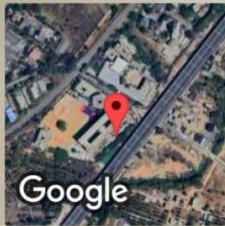
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Bengaluru, Karnataka, India

Computer Science and Design Rajarajeshwari College of engineering ramohalli cross,kumbalagodu,
Mysore road

Lat 12.886828°

Long 77.450318°

12/09/24 09:33 AM GMT +05:30


 GPS Map Camera

Fig. 1. Students of 2nd Year CSD are attending the program

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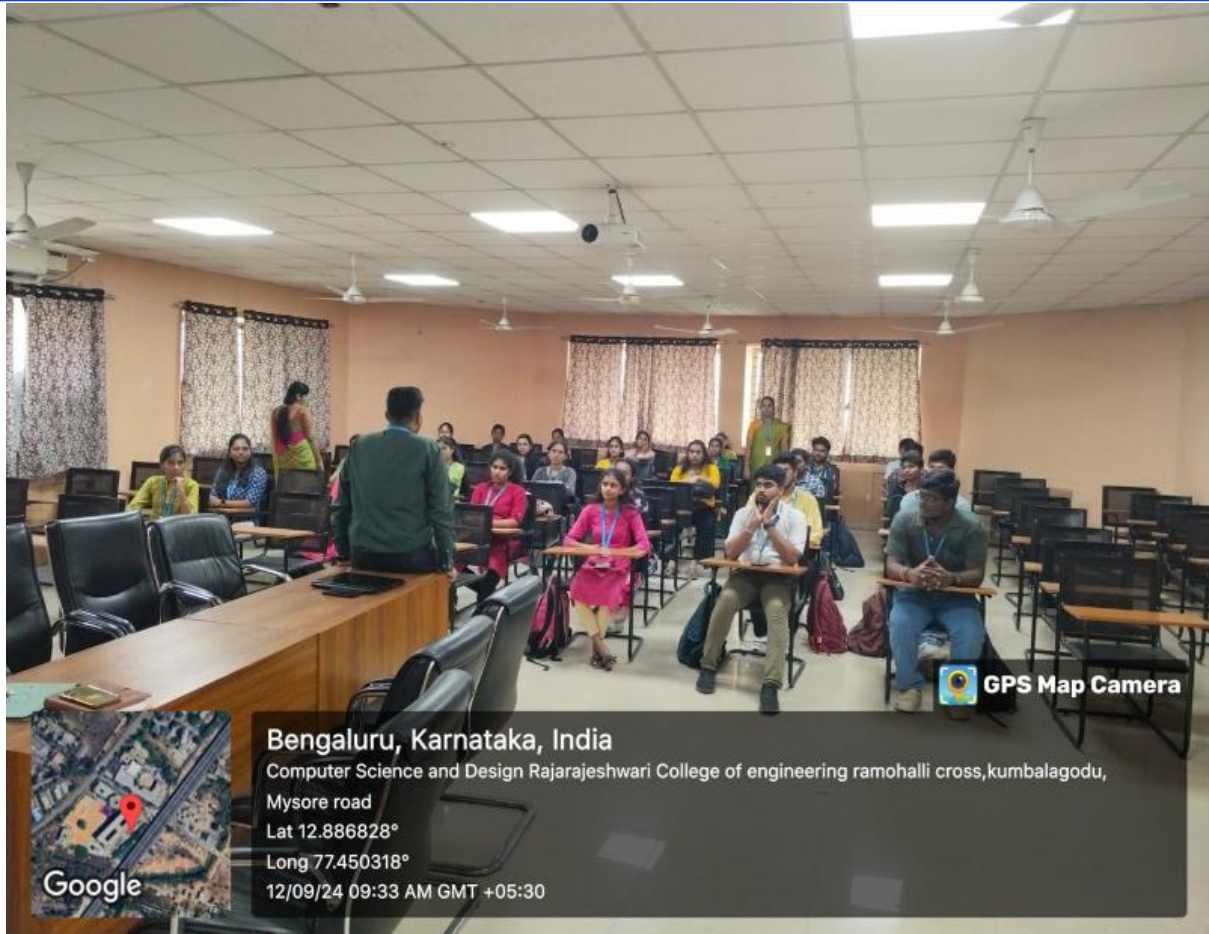


Fig. 2. Speaker Mr.Deeraj and HoD Dr M.Selvi assembling in the venue during the program

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Fig. 3. Speaker Mr.Deeraj addressing the students

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Google



Fig 4. Group photo of 2nd year Students of CSD Department

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Fig 5. Group photo of 2nd year students CSD Department.

Report prepared by
Dr.M.Selvi, HOD,
Mrs. Rubithra A, Dept of CSD

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