Report FDP on "Teaching IoT with Real-Time Sensor Application"

NAME OF THE DEPARTMENT: Department of Computer Science & Engineering

1. Type of Event : FDP on "Teaching IoT with Real-Time Sensor Application"

2. Resource Person : Mr.Sreedhara Reddy
Technical Engineer
M/s.Iobit Solutions.

Mr.Kota Balu Kowshal
Embedde IoT Engineer
M/s.Iobit Solutions.

4. Date of the Event : 28th Jul 2025 – 01st Aug 2025

5.Faculty Coordinators : Abubakkar Sithik.
Assistant Professor
Department of CSE
RajaRajeswari College of Engineering,
Bengaluru 560074

Deepika M
Assistant Professor
Department of CSE
RajaRajeswari College of Engineering
Bengaluru 560074

6. Venue: CSE Lab 5th Floor

7. Outcome of the programme:

Faculties gained information about the following:

Enhanced Knowledge of IoT Fundamentals

Participants gained a strong conceptual understanding of the Internet of Things (IoT), including its architecture, components, and communication protocols.

Hands-on Experience with Real-Time Sensors

The FDP provided practical exposure to interfacing real-time sensors (such as temperature, humidity, motion, and gas sensors) with microcontrollers like Arduino or Raspberry Pi.

Project-Based Learning Integration

The programme emphasized project-based learning, enabling participants to design and guide students through real-world IoT projects involving sensor data collection and cloud integration.

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Under VTU, Approved by AICTE, UGC & GoK
No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

Department of Computer Science and Engineering

Organizing Faculty Development Program on

"Teaching IoT with Real-Time Sensor Applications"

Resource Persons

Mr. Sreedhara Reddy
Technical Engineer
M/s. IobiT Solutions

Mr. Kota Balu Kowshal
Embedded IoT Engineer
M/s. IobiT Solutions

DATE & TIME

28-7-2025 to 01-8-2025 | 9:30 AM TO 3:30 PM

CSE LAB, 5th floor, RRCE

Coordinator - Abubakkar Sithik M, Assistant Professor, Dept.of.CSE

CONTACT US

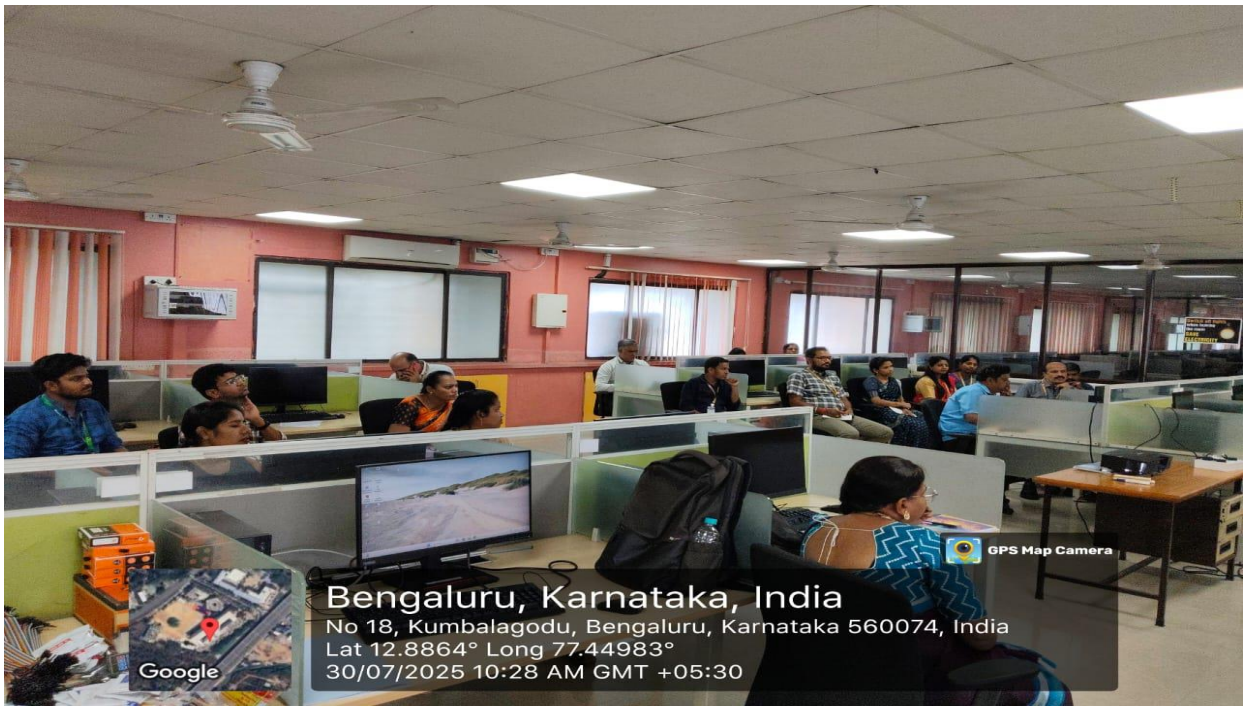
For More Information
www.rrce.org

Dr. Kirubha D
HoD – CSE

Dr. R. Balakrishna
Principal

Geotagged Photos of the SDP

Guests are on the dais



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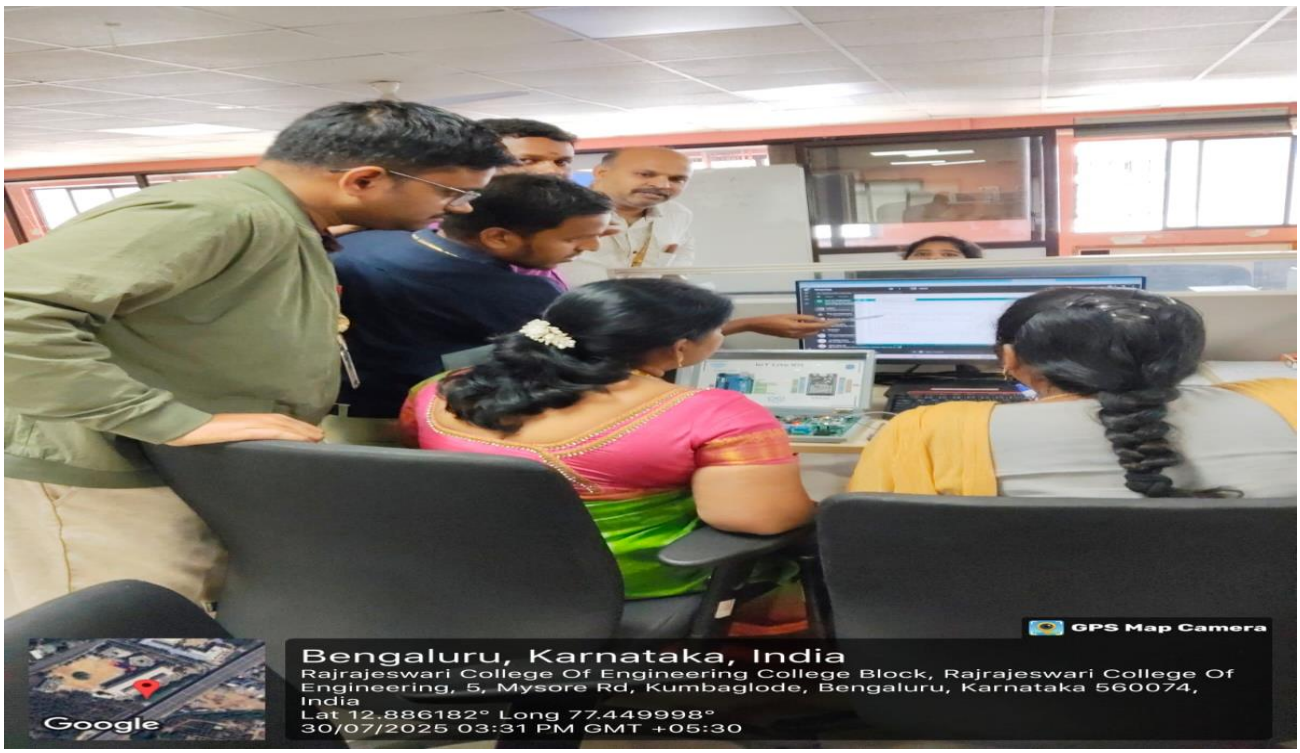
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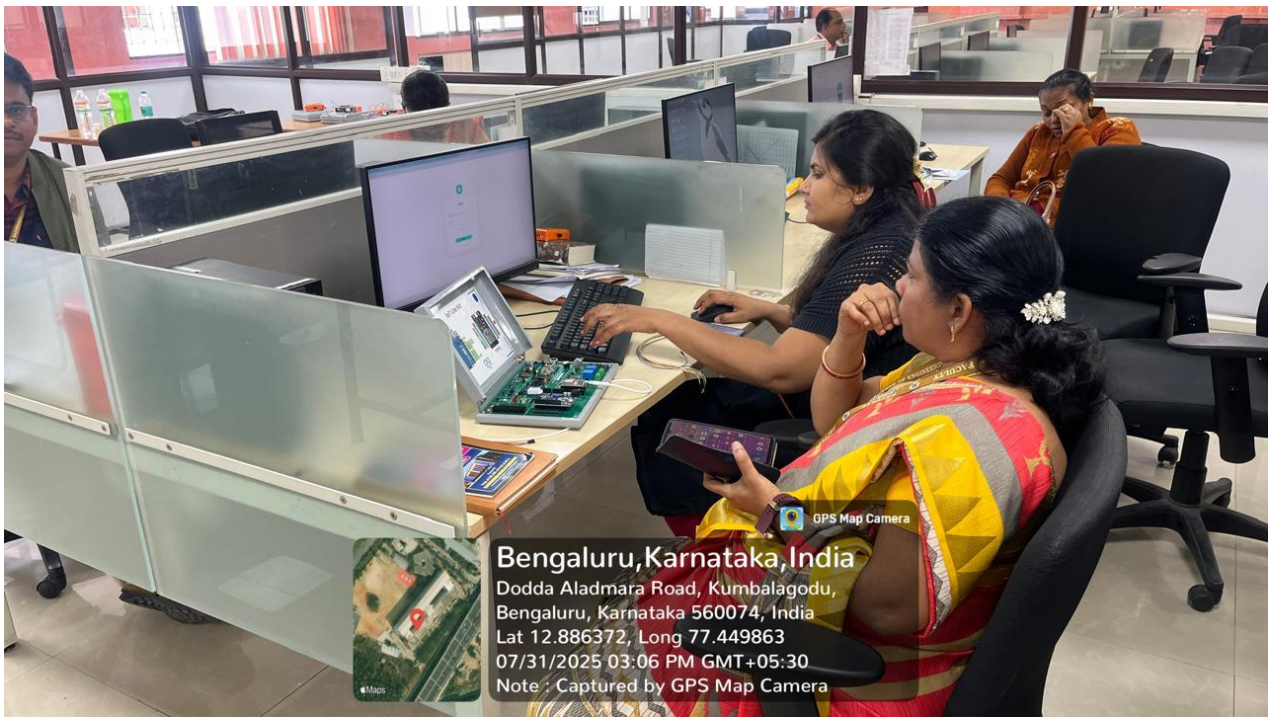
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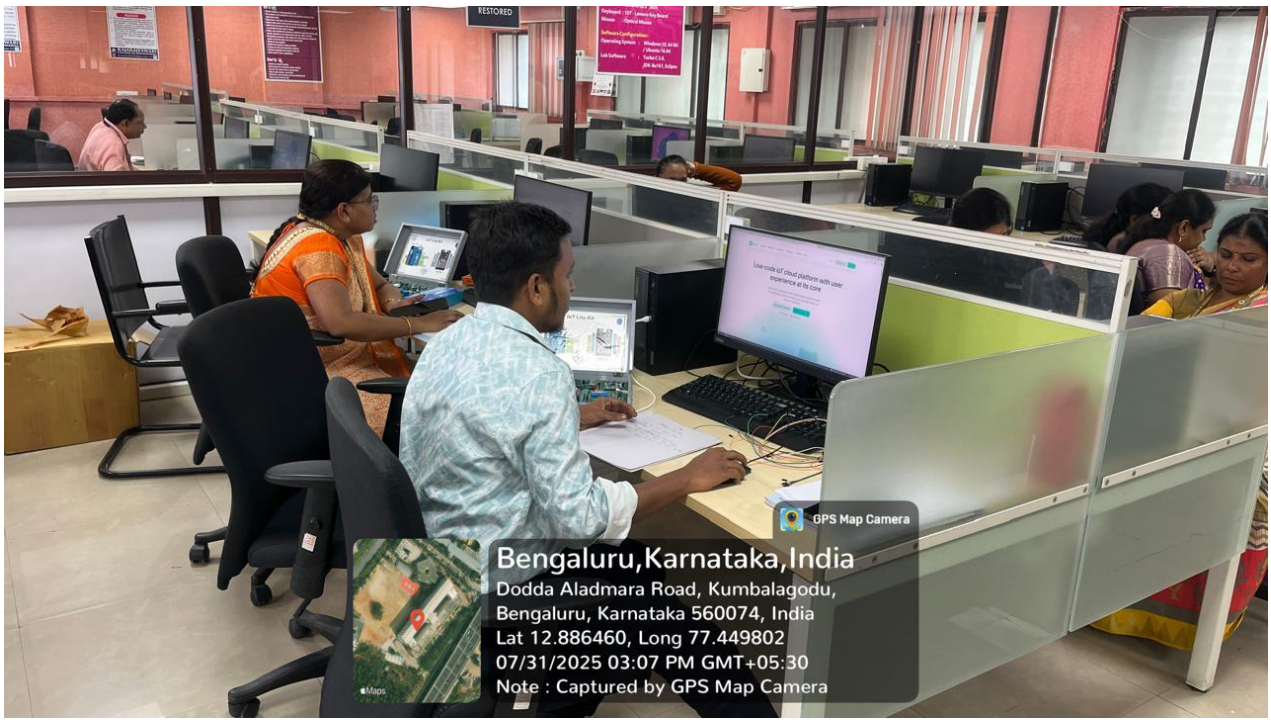
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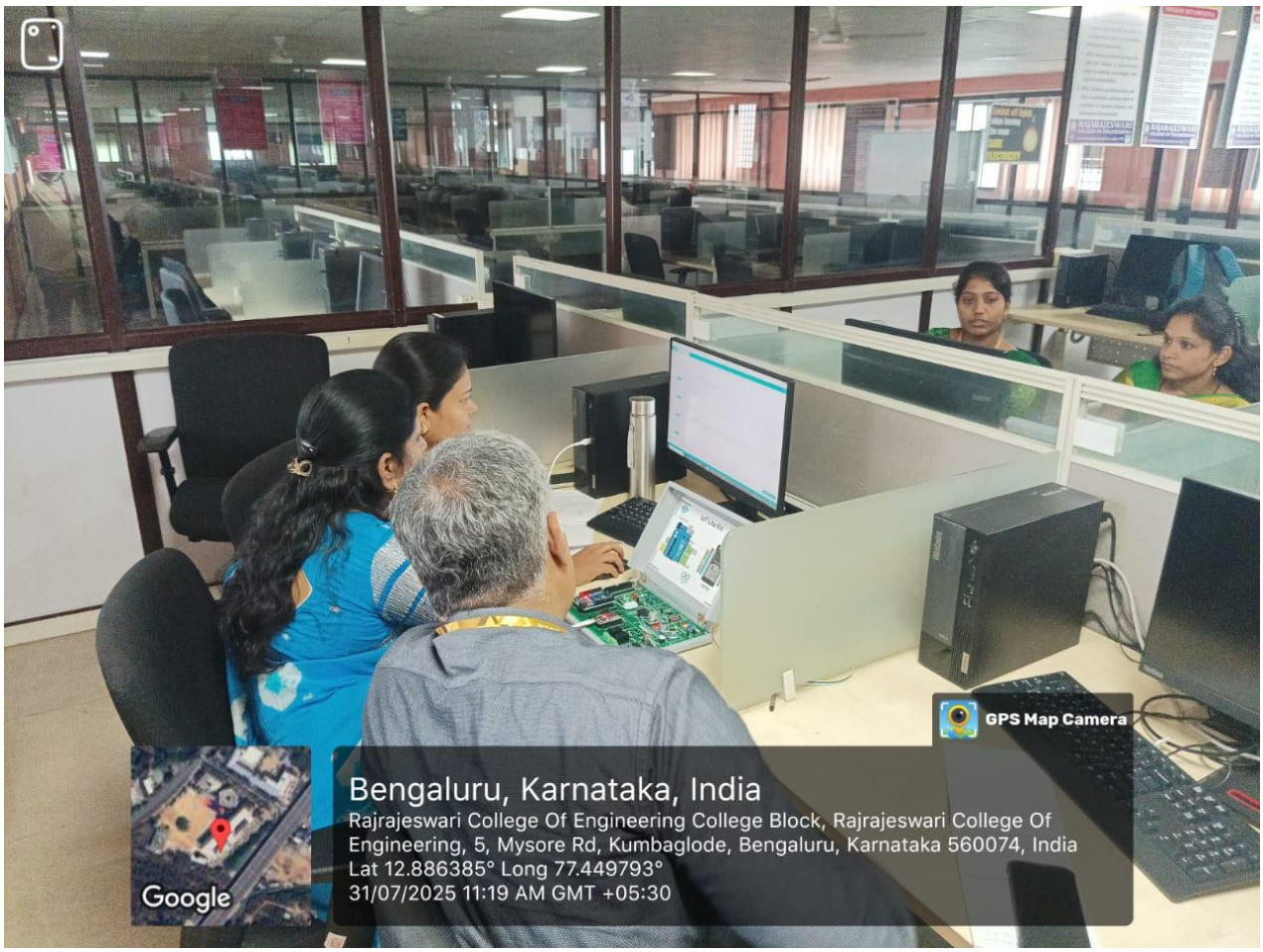
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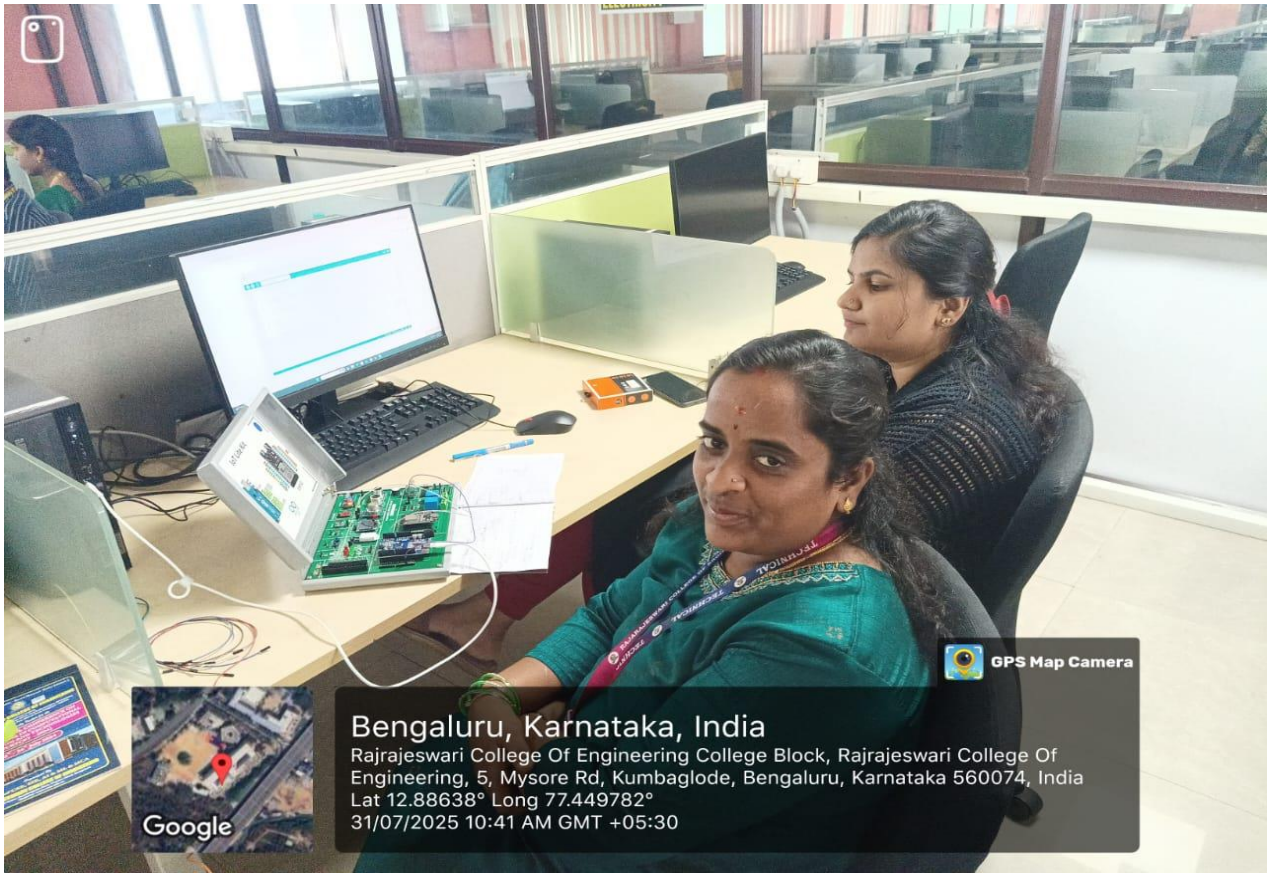
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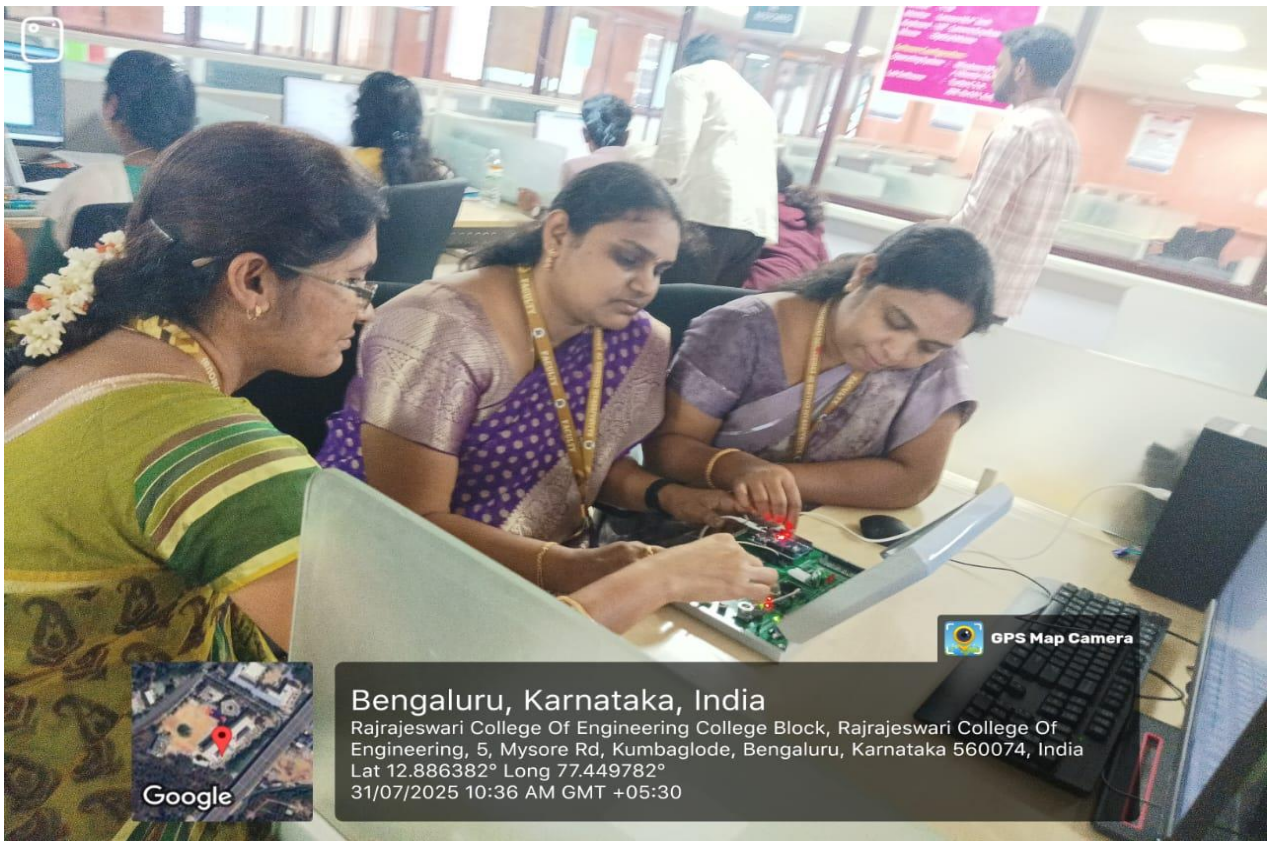
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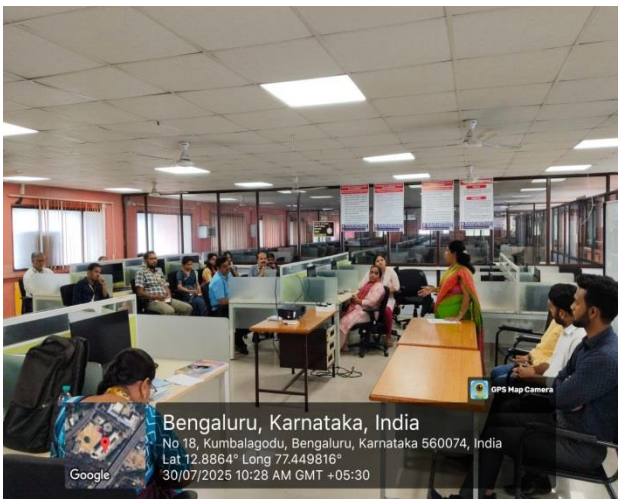
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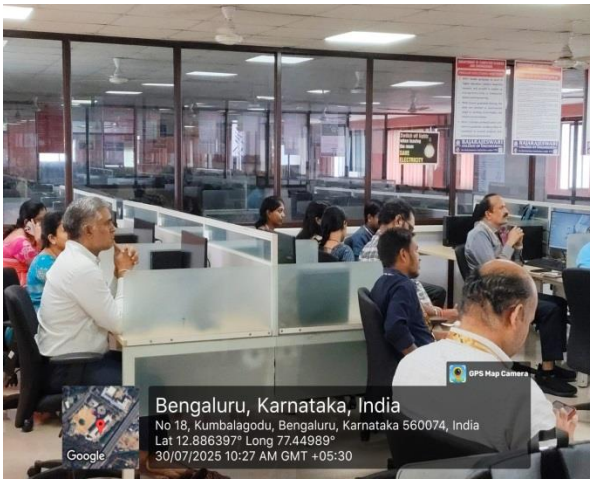
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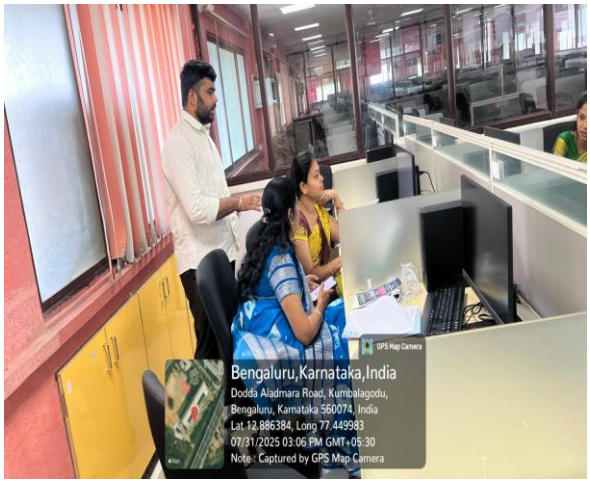
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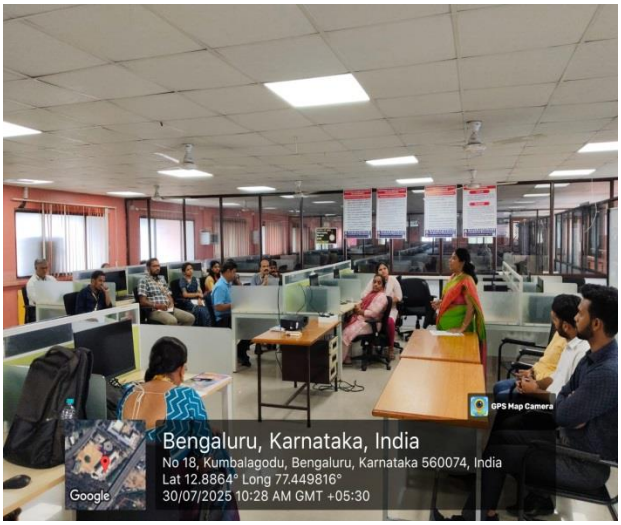
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Workshop Overview

The Faculty Development Program (FDP) on **"Teaching IoT with Real-Time Sensor Application"** is designed to equip educators, researchers, and industry professionals with in-depth knowledge and hands-on experience in the rapidly evolving field of the Internet of Things (IoT). This FDP aims to bridge the gap between theoretical IoT concepts and practical implementation through real-time sensor data integration and application development.

Topics covered:

- Introduction to IoT architecture and components
- Overview of Arduino, ESP8266, ESP32
- Actuator control and automation (relays, motors, LEDs)
- GPIO programming and interrupt handling
- Teaching Methodology and Curriculum Integration
  i. Designing IoT lab experiments and mini-projects
  ii. Case studies and hands-on modules for classroom
  iii. Blended learning and evaluation strategies for IoT

Student Observations:

1.Relevance and Practicality

- The FDP bridged the gap between theoretical concepts and hands-on implementation.
- Real-time sensor applications provided practical insights into how IoT is used in real-world scenarios.
- Sessions were aligned with industry trends and expectations, making the learning highly relevant for both teaching and research.

2. Quality of Content and Delivery

- Resource persons were knowledgeable and presented content in a clear and engaging manner.
- The balance between theory and practical sessions was well-maintained.
- Live demonstrations using platforms like Arduino, ESP32, and cloud dashboards (ThingSpeak, Blynk) enhanced understanding.

3. Hands-on Learning Experience

- Interfacing sensors with microcontrollers gave participants hands-on skills that can be replicated in labs and student projects.
- The programming sessions helped in understanding real-time data acquisition and control logic.
- Faculty appreciated the mini-project guidance that can be incorporated into student assignments.

7. Suggestions and Feedback

- Some faculty suggested extending the duration for deeper exploration of advanced IoT topics.
- A few recommended the inclusion of more complex projects involving AI/ML integration.
- Most participants requested follow-up advanced FDPs or certification courses.

Conclusion:

This FDP not only empowered educators with modern tools and techniques but also encouraged collaborative learning and innovation. The knowledge shared during the program is expected to significantly contribute to the academic and research activities of the participants.

The program concluded with a strong commitment from faculty to implement IoT-based learning and research initiatives in their respective institutions.

Dr. D. KIRUBHA
Head of the Department,
Computer Science and Engineering
Rajarajeswari College of Engineering.
Bangalore - 560 074

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Department of Computer Science and Engineering

FDP ON TEACHING IoT WITH REAL-TIME SENSOR APPLICATIONS

FACULTY ATTENDANCE SHEET

Sl No	Faculty Name	28-07-25 (FN)	28-07-25 (AN)	29-07-25 (FN)	29-07-25 (AN)	29-08-25 (FN)	30-08-25 (AN)	31-08-25 (FN)	31-08-25 (AN)	1-08-25 (FN)	1-08-25 (AN)
1.	Dr.D.Kirubha										
2.	Dr. Lakshma Reddy B										
3.	Dr. C S Pillai										
4.	Dr. Kamal Raj.T										
5.	Dr.Lakshmi C										
6.	Dr.Richard William										
7.	Mr. V M SaravanaPerumal										
8.	Mr. Rajkumar R										
9.	Mr. T Auntin Jose										
10.	Mrs. Manasa.G.V.Kumar	OOD			OOD						
11.	Mrs.Supraja M	VL	VL	VL	VL						
12.	Mrs.Josna O	VL	VL	VL	VL						
13.	Mrs.Ojaswini R N	OOD			OOD						
14.	Mrs.Yashaswini R	OOD			OOD						
15.	Mr.Abubakkarsithik M										

16.	Ms.MohanaDivya D										
17.	Ms.Deepika M Gowda										
18.	Mrs.Pallavi										
19.	Ms.Thilagavalli S										
20.	Mrs.Yashaswini H R										
21.	HariChandana										
22.	Usha N										
23.	DIVYA.P (ACS)										
24.	MUHAMMAD OWAISH.A (ACS)										

Event Co-ordinator

HoD

Dept. of Computer Science & Engineering.
Rajarajeswari College of Engineering.
Bangalore - 560 074.

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Department of Computer Science and Engineering

FDP ON TEACHING IoT WITH REAL-TIME SENSOR APPLICATIONS

NON-TEACHINGATTENDANCE SHEET

Sl No	Faculty Name	28-07-25 (FN)	28-07-25 (AN)	29-07-25 (FN)	29-07-25 (AN)	29-08-25 (FN)	30-08-25 (AN)	31-08-25 (FN)	31-08-25 (AN)	1-08-25 (FN)	1-08-25 (AN)
1	Mr.Achuthan										
2.	Mrs.Thripurambha .M.P										
3.	Ms.Indra										
4.	Ms.Priyadharshini. M										
5.	LOKESH.K (ACS)										
6.	Mrs.Jeevitha G.S										
7.	Mr.Vijayshekar										
8.	Ganapathi										

Event Co-ordinator

HoD
Dr. D. KIRUBHA
Head of the Department,
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Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Event: FDP on Teaching IoT with Real – Time Applications
Resource Persons: Sreedhara Reddy & Srinivasa Reddy
Faculty Name: Dr. A. Richard William
Date: 28th July – 01st Aug

1. **How would you rate the overall effectiveness of the FDP on "Teaching IoT with Real-Time Sensor Applications"?**
   a. ✓ Excellent b. Good c. Average d. Poor
2. **How useful was the FDP content in enhancing your knowledge of IoT and real-time sensor applications?**
   a. ✓ Very Useful b. Useful c. Neutral d. Not Useful
3. **Were the learning objectives of the FDP clearly defined and met throughout the sessions?**
   a. ✓ Yes b. Somewhat c. No
4. **How would you rate the technical depth and relevance of the topics covered?**
   a. Too Basic b. ✓ Appropriate c. Too Advanced
5. **Was the hands-on session or demonstration with real-time sensors helpful and easy to follow?**
   a. ✓ Yes b. Partially c. No
6. **How would you rate the resource persons in terms of subject knowledge and delivery?**
   b. ✓ Excellent b. Good c. Average d. Poor
7. **Were the session durations and pacing comfortable for understanding and interaction?**
   a. ✓ Yes b. Somewhat c. No
8. **Did the FDP provide new ideas or teaching strategies that you can apply in your own classroom?**
   a. ✓ Yes b. Somewhat c. No
9. **What topics or tools would you like to see included in future FDPs on IoT or related technologies?**
   Bluetooth, Sensors, wifi
10. **Any other comments or suggestions for improving future FDPs?**
    The FDP was very useful to the faculties it will motivate the students to be more advanced in their studies.

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Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Event: FDP on Teaching IoT with Real – Time Applications
Resource Persons: Sreedhara Reddy & Srinivasa Reddy
Faculty Name: D Mohana Sinya
Date: 28th July – 01st Aug

1. **How would you rate the overall effectiveness of the FDP on "Teaching IoT with Real-Time Sensor Applications"?**
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   a. Yes b. Somewhat c. No
9. **What topics or tools would you like to see included in future FDPs on IoT or related technologies?**

   Sensors working under water and message communication

10. **Any other comments or suggestions for improving future FDPs?**

    Overall Good

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Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Event: FDP on Teaching IoT with Real – Time Applications
Resource Persons: Sreedhara Reddy & Srinivasa Reddy
Faculty Name: Dr. C.S. Pillai
Date: 28th July – 01st Aug

1. **How would you rate the overall effectiveness of the FDP on "Teaching IoT with Real-Time Sensor Applications"?**
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   a. Yes b. Somewhat c. No
9. **What topics or tools would you like to see included in future FDPs on IoT or related technologies?**

   Raspberry Pi

10. **Any other comments or suggestions for improving future FDPs?**

    5 days is very less for covering all the topics.

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Department of Computer Science and Engineering

FEEDBACK FORM

Name of the Event: FDP on Teaching IoT with Real – Time Applications
Resource Persons: Sreedhara Reddy & Srinivasa Reddy
Faculty Name: T. Ambin Jose.
Date: 28th July – 01st Aug

1. **How would you rate the overall effectiveness of the FDP on "Teaching IoT with Real-Time Sensor Applications"?**
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8. **Did the FDP provide new ideas or teaching strategies that you can apply in your own classroom?**
   a. ✓ Yes b. Somewhat c. No
9. **What topics or tools would you like to see included in future FDPs on IoT or related technologies?**

   - NIL

10. **Any other comments or suggestions for improving future FDPs?**

    - NIL

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FEEDBACK FORM

Name of the Event: FDP on Teaching IoT with Real – Time Applications
Resource Persons: Sreedhara Reddy & Srinivasa Reddy
Faculty Name: Deepika M
Date: 28th July – 01st Aug

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8. **Did the FDP provide new ideas or teaching strategies that you can apply in your own classroom?**
   a. Yes b. Somewhat c. No
9. **What topics or tools would you like to see included in future FDPs on IoT or related technologies?**

   Advanced IoT Tools

10. **Any other comments or suggestions for improving future FDPs?**

    -NIL-

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RajaRajeswari College of Engineering

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Department of Computer Science and Engineering

FIVE DAYS FACULTY DEVELOPMENT PROGRAM
On

"TEACHING IOT WITH REAL-TIME SENSOR APPLICATIONS"

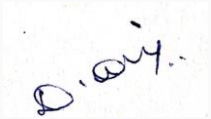
28TH JULY– 01ST AUG 2025

Certificate

It is certified that **Prof. T Auntin Jose, Assistant Professor** of RRCE has successfully participated and completed five days Faculty Development Program on **"Teaching IOT with Real-Time Sensor Applications"** from 28th July– 01st Aug 2025 organised by Department of Computer Science and Engineering in RajaRajeswari College of Engineering, Bangalore – 560074.

Prof. Abubhakar Sithik M
Programme Coordinator
Assistant Professor, Dept. of CSE,
RRCE, Bangalore

Mr. Sreedhara Reddy
Resource Person
IobiT Solutions
Bangalore



Dr. D Kirubha
HOD
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It is certified that **Prof. Pallavi, Assistant Professor** of RRCE has successfully participated and completed five days Faculty Development Program on **"Teaching IOT with Real-Time Sensor Applications"** from 28th July– 01st Aug 2025 organised by Department of Computer Science and Engineering in RajaRajeswari College of Engineering, Bangalore – 560074.

Prof. Abubhakar Sithik M Programme Coordinator Assistant Professor, Dept. of CSE, RRCE, Bangalore	Mr. Sreedhara Reddy Resource Person IobiT Solutions Bangalore	Dr. D Kirubha HOD Dept. of CSE, RRCE, Bangalore

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It is certified that **Mrs. Priyadharshini, Tutor** of RRCE has successfully participated and completed five days Faculty Development Program on **"Teaching IOT with Real-Time Sensor Applications"** from 28th July– 01st Aug 2025 organised by Department of Computer Science and Engineering in RajaRajeswari College of Engineering, Bangalore – 560074.

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It is certified that **Dr. Richard William, Assistant Professor** of RRCE has successfully participated and completed five days Faculty Development Program on **"Teaching IOT with Real-Time Sensor Applications"** from 28th July– 01st Aug 2025 organised by Department of Computer Science and Engineering in RajaRajeswari College of Engineering, Bangalore – 560074.

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