



# DEPARTMENT OF INFORMATION TECHNOLOGY

Invites you all

## TWO DAYS FACULTY DEVELOPMENT PROGRAM

ON

## INTERNET OF THINGS & EDGE INTELLIGENCE



**Resource Person**

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**Date: 18<sup>th</sup> & 19<sup>th</sup> FEBRUARY, 2025**

**Time: 9:00am - 4:30pm**

**Venue : Chandra Seminar Hall**

## **ABOUT COLLEGE**

PSGR Krishnammal College for Women (KCW) was established in 1963 by Sri.G.R.Govindarajulu and Smt. Chandrakanthi Govindarajulu. Affiliated to the Bharathiar University in Coimbatore, KCW is situated on a beautiful, serene, and verdant campus. Over a period of nearly 60 years, it has grown into full-fledged first grade Post Graduate-research institution with well-equipped laboratories, two excellent modern libraries, an extensive well-maintained playground and a world-class indoor sports arena. The college functions in two shifts, offering 36 UG, 17 PG, 1 PG Diploma, and 13 research programmes with a strength of 8500+ students and 425+ faculty members. The college was conferred with 'College of Excellence' status by the UGC in 2016 and has been awarded the A++ grade with a CGPA of 3.71 on a four-point scale by the NAAC in the fourth cycle of accreditation. It is ranked 7 in the National Institutional Ranking Framework 2024 by the Ministry of Education, Government of India. In KCW, KARISHMA 2024 is the most awaited spectacular Inter- Collegiate Cultural Extravaganza which has a myriad of events being conducted to bring out the latent potential of the participants.

## **ABOUT FDP on IoT**

A Faculty Development Program (FDP) on the Internet of Things (IoT) is designed to enhance the knowledge and teaching capabilities of educators in the rapidly evolving field of IoT. This program focuses on the core components of IoT, including sensor networks, data analytics, cloud computing, and communication protocols. Participants are introduced to IoT platforms such as Arduino and Raspberry Pi, gaining hands-on experience to facilitate the development of IoT-based applications. The FDP not only provides a deep understanding of IoT technologies but also empowers faculty to integrate these concepts into their academic curricula and research projects. By equipping educators with practical skills and the latest industry insights, the program aims to bridge the gap between theoretical knowledge and real-world IoT applications, particularly in domains like healthcare, smart cities, and automation.

# SESSION SCHEDULE

## TUESDAY FEBRUARY 18<sup>th</sup> 2025

- 9:00 AM to 9:30 AM - Inauguration
- 9:30 AM to 11:15 AM - Introduction to IoT and Enabling Technologies for IoT
- 11:15 AM to 11:30 AM - Break
- 11:30 AM to 1:00 PM - Hardware (ESP32) and Software Platforms for Internet of Things.
- 1:00 PM to 2:00 PM - Lunch Break
- 2:00 PM to 3:15 PM - Hands-On Session - Interfacing of sensors and Actuators
- 3:15 PM to 3:30 PM - Break
- 3:30 PM to 4:30 PM - Connectivity Technologies - BLE, ZigBee, Wi-Fi, NB-IoT, LoRA

## WEDNESDAY FEBRUARY 19<sup>th</sup> 2025

- 9:30 AM to 11:15 AM - Hands-On Session Building of IoT using ESP 32 based - Wi-Fi and BLE based.
- 11:15 AM to 11:30 AM - Break
- 11:30 AM to 1:00 PM - Hands-On Session - Interfacing of IoT Node with Cloud Thing Speak Ubidots
- 1:00 PM to 2:00 PM - Lunch Break
- 2:00 PM to 3:15 PM - Use case implementation - WSN (BLE / Wi-Fi) integration with Cloud and Integration of End device (ESP32), Edge Device and Cloud
- 3:15 PM to 3:30 PM - Break
- 3:30 PM to 4:15 PM - Integration of Node Red with IoT System and MQTT Setup and End IoT Deployment and Analytics
- 4:15 PM to 4:30 PM - Valediction

Registration Fee : ₹ 750  
For early bird : ₹ 500 only  
Last date of registration: 15-02-2025  
Research scholar : ₹ 500  
Registration link :  
<https://forms.gle/p9zR18jRoPe4PwNN8>

Patrons :

Dr. P.B. Harathi  
Principal  
PSGR Krishnammal College For Women

Chief convenors:

Dr.G.Sophia Reena  
Associate Professor & Head of IT Department

## FDP Coordinators

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