

## Industry Sponsored Workshop

on

### "IoT Made Easy : Hands-on Learning and Innovation"

18<sup>th</sup> to 20<sup>th</sup> March 2025



Organized by

Department of Information Technology  
(NBA Accredited)

St. Joseph's Institute of Technology  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai-119

#### DATES TO REMEMBER

Last date for submission: 14<sup>th</sup> March 2025

Intimation of selection: 15<sup>th</sup> March 2025

- Number of participants is limited to 50.
- Selection of participants will be based on First Come First Serve Basis.
- The selected candidates will be intimated through email.

#### CHIEF PATRONS

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**Dr. K. Vijayakumar, M.Tech., Ph.D.**

Professor & Head

Department of Information Technology

#### COORDINATOR

**Dr. R. Deepa, M.Tech., Ph.D.**

Associate Professor / IT

#### CO-COORDINATOR

**Mrs. C. P. Jetlin, M.E., (Ph.D.)**

Assistant Professor / IT

#### ORGANIZING COMMITTEE MEMBERS

**Mr. Najeem Dheen A, M.E., (Ph.D.)**

Assistant Professor / IT

**Mr. G. Praveen Kumar, M.E.,**

Assistant Professor / IT

#### ABOUT THE INSTITUTE

St. Joseph's Institute of Technology is a higher education institution in OMR, Chennai, India, established in the year 2011 and offers 7 UG programmes - CSE, ECE, EEE, IT and MECH and 1 PG Programme - Business Administration.

- Anna University has approved 4 Departments - CSE, ECE, IT and MECH as Recognized Centre for Research for offering Ph. D/MS (by research).

- Our college has been approved for establishment AICTE Idea Lab - one among 95 Labs in India with an investment of Rs. 1.10 Crore to impart skill based training of our students from First Year onwards.

- For 5 consecutive years, our institution has been awarded with 4 out of 5 stars by the Institutions Innovation Council (IIC), Ministry of Education, Government of India and approved as a "Skill Development Center" with grant of Rs. 24 Lakhs for establishing Skill Hub under PMKVY 4.0

#### ABOUT THE DEPARTMENT OF IT

- The Department of Information Technology was established in 2011 with an intake of 150, presently extended to 240, and strives for well-qualified in various specializations and experienced faculty members.

- The department has undertaken research projects and provides consultancy services to needy industries.

- The department has signed MoUs with various industries and established a Centre of Excellence.

- We have received funding from AICTE, CSIR, and SERB to conduct the annual IEEE International Conference.

#### ABOUT EMSOL SYSTEMS

- EmSol Systems is a professionally managed Embedded based company specialized in providing the Technology Solutions for Educational & Industries in the field of IoT (Internet of Things) since 2012.

- EmSol provides IoT solutions for various vertical markets like Home/Building Automation, Smart Grid, Smart Vehicle Tracking, Industrial Automation, E-Health Monitoring, Remote Machine Monitoring, Remote Telecom Tower Monitoring, Smart Vending, Smart City, Smart Retail and more.

- Since 2012, company also started offering design and development services. This includes a complete spectrum of activities in product development life cycle that is idea generation, requirement gathering to prototype making, testing and manufacturing.

## ABOUT THE WORKSHOP

### Theme:

This Workshop on IoT Made Easy: Hands-on Learning and Innovation is intended for the participants to make IoT accessible through hands-on concepts and real-world applications. Showcasing how IoT is transforming industries like healthcare, agriculture, and smart cities, the goal is to encourage participants to develop innovative IoT-based solutions for real-world challenges.

### Scope:

This Workshop on IoT Made Easy: Hands-on Learning and Innovation covers a wide range of topics, including overview of IoT architecture, components and applications. Exploring IoT communication protocols, Security and Privacy in IoT, and potential future developments.

### Objectives:

- To provide a fundamental understanding of IoT architecture, components, and protocols.
- To guide participants in designing and building real-world IoT applications so they can operate IoT devices, configure networks, and put data processing and communication systems in place.
- To enable participants to have practical learning through hands-on sessions using IoT development boards.
- To Create opportunities for faculty members, researchers, students, and industry professional to network and collaborate on IoT-related projects and research.
- To Demonstrate practical use cases of IoT applications in smart cities, healthcare, agriculture, and industry to show its potential for problem-solving and innovation

## WORKSHOP CONTENT

The course content is designed for the faculty/PhD/PG/UG students to motivate them in learning various tools and techniques of IoTs with Hands-on sessions.

- Demonstration on IoT Project Development kit and IoT Data Analytics Software.
- IoT Communication Protocols & Connectivity.
- IoT and Cloud Integration.
- IoT Security & Future Trends in IoT.
- Hands-on sessions on IoT Applications.

## WORKSHOP OUTCOMES

Upon successful completion of this workshop one can:

- Understand the usability of end-to-end IoT ecosystem across various real-world applications
- Understand and design different application and communication protocols for IoTs.
- Demonstrate and Hands-on various IoT applications
- Enhance problem-solving and innovation skills in IoT system design.

## RESOURCE PERSONS

The sessions will be handled by Industry Experts from EmsoI Systems, Chennai

Mr. P.C.STALIN  
Manager,  
EmsoI Systems, Chennai.

Mr. K. SARATHKUMAR  
Research Engineer, R&D,  
EmsoI Systems, Chennai.

## PARTICIPANT GUIDELINES

- There is **NO REGISTRATION FEE**
- This Workshop encourages M.E., M.Tech., MCA students, Research Scholars, Faculty Members and Industrial Participants
- Refreshments and Lunch will be Provided
- Whatsapp link: <https://chat.whatsapp.com/EHv4uUluAmVHv39i0eCrgj>

Please get 'No Objection Certificate' from Head of the Institution / Dean of School / Head of the Department and furnish along with the registration.

Link for registration:  
Participants are requested to fill the registration details in the following link:  
<https://forms.gle/ScEqzGBxxTRABHwo8>



## FOR FURTHER DETAILS / CLARIFICATIONS

Contact to:  
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