



DHARMAMURTHI RAO BAHADUR CALAVALA CUNNAN CHETTY'S HINDU COLLEGE

"LINGUISTIC (TELUGU) MINORITY STATUS CONFERRED BY THE GOVERNMENT OF TAMIL NADU"

(SHIFT 2)

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Department of Electronics with Artificial Intelligence

in collaboration with



**QMOS
TECHNOLOGIES**

Two Day Workshop on

**"UNLOCKING INNOVATIONS THROUGH AI - DRIVEN
EMBEDDED SYSTEMS"**

(SDG 4 : Quality Education)

Resource person

Smt. M. DIVYA

Proprietrix, QMOS Technologies, Chennai.

Date : 25th & 26th September 2025

Time : 10.00 a.m. to 4.30 p.m.

Venue : Calavala Ramanujam Chetty Conference Hall

Dr. A. Gopinath

Head of the Department

Dr. K. Sridhar

Dean (Academics)

Dr. N. Rajendra Naidu

Director

Dr. G. Kalvikkarasi

Principal

Sri M. Venkatesaperumal

Honorary Secretary

Members of Trust Board

Sri M.V. Cunniah Chetty, President & Managing Trustee

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Dr. Pravin Tellakula

Dr. R. Balaji Gupta

Sri G. Chandramohan

Sri Ramesh Chitralla

Sri B. Gautham

About The Resource Person



Mrs. Divya Mohanarangam, B.E. (Electronics and Communication Engineering), M.E. (Applied Electronics) our resource person for the workshop, a well expertise person in the fields of Embedded System Design, Internet of Things(IoT), Artificial Intelligence, Machine Learning and Chip Design. As the Proprietrix – QMOS Technologies, she has been a driving force behind the notable achievements and various projects. She has excellent exposure in various tools such as C, C++, Python, Embedded C, R Programming, MATLAB & Simulink, VHDL, Verilog, HDL & System Verilog.

She has been worked with various Embedded platforms, Chip design solution for GPS transponders, having 15+ years experience in the field of VLSI, Chip design, Physical design, Simulation and Synthesis. Dedicated and Passionate towards, mentoring, training job seekers, students in the field of Embedded systems, VLSI technology and AI. She has been mentoring young professionals and providing Research guidance to scholars in Image Processing, Data Science, AI and Neural Computing domains.

About the Workshop

This program introduces participants to the fundamentals of Artificial Intelligence (AI), Internet of Things (IoT), and embedded systems with practical exposure to Arduino programming and sensor interfacing.

HIGHLIGHTS :

AI Fundamentals : Moore's Law, applications, benefits, ethics, security & privacy concerns. Arduino Programming: Basics of Embedded C, Arduino configurations, and hands-on coding. Sensor Interfacing: Ultrasound, humidity, flame, moisture, and gas sensors with real-time applications.

AI in Sensors : On-chip AI models, predictive analysis, and digital sensor integration.

IoT Applications : ThingSpeak configuration, live data monitoring, AI-IoT integration, and data collection methods.

Project Development : Predictive AI models, prototyping, and innovative project ideas.

Support : Doubt clarifications and reference materials for extended learning.

Program Outcomes : Participants will gain practical skills in AI, IoT, and Arduino programming, enabling them to design prototypes, monitor live data, and develop innovative AI-IoT solutions.