



MAR BASELIOS CHRISTIAN
COLLEGE OF ENGINEERING & TECHNOLOGY
KUTTIKKANAM, PEERMADE



Role of **EMBEDDED** SYSTEMS In **EV**

A Focus on Electronics and Communication



Session by

Mr. Jomon Thomas
Associate Architect
Schaeffler



19/10/2024 Venue: PTA Seminar Hall, MBCCET

Organised by ECE Department, MBCCET



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“Report on the Technical Invited Talk on Role of Embedded Systems in EV”

PROGRAM DETAILS:

Date: 19th October 2024

Venue: PTA Seminar Hall

Speaker: Mr. Jomon Thomas, Associate Architect, Schaeffler.

The Department of Electronics and Communication Engineering at MBCCET, Peermade, organized a technical invited talk titled “Role of Embedded System in EV” on 19th October 2024 for third-year and final-year students. The session was led by Mr. Jomon Thomas, Associate Architect, Schaeffler, an alumnus of the 2012–2016 ECE batch.

The session featured an engaging presentation highlighting the significance of embedded systems in modern electric vehicles. Key topics included the architecture of embedded systems in EVs, focusing on the role of microcontrollers and processors in controlling various subsystems, the importance of embedded systems in battery management for monitoring and optimizing performance, and their application in powertrain control to ensure efficient energy management and motor control. The use of communication protocols, such as CAN (Controller Area Network), to facilitate seamless interaction between EV components was also discussed.

Emerging trends and challenges in the EV sector were explored, emphasizing the growing demand for skilled engineers proficient in embedded systems. The session concluded with an interactive Q&A segment, during which students enthusiastically engaged with technical concepts and career opportunities in the EV domain.







