

**Faculty of Engineering & Technology**

**Microcontroller-based Systems**

**Information :**

**Course Code :** EED321

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Electrical Power Engineering

**Instructor Information :**

Title	Name	Office hours
Professor	Mohamed Abdelmonem Abouelela Mohamed	3
Associate Professor	Mohamed Hassan Mohamed Elmahlawy	1
Teaching Assistant	Shahd Ahmad Samir Ibrahim	
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**Description :**

Introduction to Microcontrollers and Embedded Systems; Microcontroller: Architecture, Programming Model, Instruction Set, Exception Handling, Interrupt Controller, Efficient Embedded Programming, Memory structure and Systems. Bus Interfaces, Integrated Circuit Interfacing, support chips. Data Converters. Application-level embedded system design concepts.