

Faculty of Engineering & Technology

Computer Organization

Information :

Course Code : EED320

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Electrical Power Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Mohamed Hassan Mohamed Elmahlawy	1
Teaching Assistant	Ahmed Khaled Mohey Ibrahim Elrweny	
Teaching Assistant	Alaa Mostafa Arafa Afify Lashin	
Teaching Assistant	Shahd Ahmad Samir Ibrahim	

Description :

Basic computer design and architecture: Design at the register transfer level, instruction codes, computer registers, timing and control, instruction cycle, memory-reference instructions, input-output, interrupt, and design of the accumulator logic, and arithmetic logic-shift unit. Memory Hierarchy (internal, external, and cache memory). Principles of hardware design using hardware description language, and design process of digital circuit simulation including special effects; circuit design, routing, delay, and meta stability. Design examples with field programmable gate array (FPGA) chips.