

Faculty of Engineering & Technology

Logic Design

Information :						
Course Code :	EED220	Level	: U	ndergraduate	Course Hours :	3.00- Hours
Department : Computer & Intelligent Systems Engineering						
Description :						
Digital systems, binary numbers, and coded number systems. Boolean algebra, canonical and standard forms, and digital logic gates and their integrated circuits. Gate-Level						
Minimization, and the map method for simplification and implementation. Combinational logic circuits: Analysis procedure, design procedure, binary adder. subtractor, binary						
multiplier, magnitude comparator, decoders, encoders, and multiplexers. Sequential logic						

circuits: Latches and Flip-Flops, analysis of clocked sequential circuits, and design

procedure. Registers, counters, Memory, memory decoding, and programmable devices. Selected applied design examples with standard integrated circuits (ICs).