Course: DE108 Digital Electronics

PROGRA	MME: Value Added Course	DE	GREE:BCA		
COURSE: Digital Electronics		SE	MESTER: 1 CREDITS: 1 Duration : 2Hrs		
COURSECODE: DE108		CC	DURSE TYPE: THEORY AND PRACTICAL		
CONTACT HOURS: 4 (weekly)					
Course Number and Name					
DE108 - DIGITAL ELECTRONICS LAB					
Course	Objectives				
	 To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits. 				
 To prepare students to perform the analysis and design of various digital electronic circuits. 					
 Students will learn and understand the Basics of digital electronics and able to design basic logic circuits, combinational and sequential circuits. 					ο
	Prerequisites		Co-requisites		
Basic u	Basic understanding of Number systems and Digital Electronics Trainer Kit basic Electronics concepts.				
Course Outcomes (COs)					
CO1	Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.				
CO2	CO2 To understand and examine the structure of various number systems and its application in digital design.				
CO3	 The ability to understand the Basics of digital electronics and analyse and design basic logic circuits- AND, OR, NOT, NAND, NOR, X-OR gates, Boolean algebra and De-Morgan's Theorem. 				
CO4	O4 The ability to understand, analyse and design the combinational circuits like- ADDERS, SUBTRACTORS, ENCODERS, DECODERS, MULTIPLEXER, DE-MULTIPLEXER, MAGNITUDE COMPARATORS.				
CO5	The ability to understand, analyse and design sequential circuits like FLIP-FLOPS, REGISTERS.				
CO6	CO6 To develop skill to build, and troubleshoot digital circuits and to understand the basic digital circuits and to verify their operation				

Course: PYTHPRO508 - PYTHON PROGRAMMING

PROGRAMME: Certificate Course	DEGREE: BCA
COURSE: Python Programming	SEMESTER: V CREDITS: 1 Duration : 2Hrs
COURSECODE: PYTHPRO508	COURSE TYPE: THEORY AND PRACTICAL
CONTACT HOURS: 4 (weekly)	

Course	Number	and	Name	
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PYTHPRO508 – PYTHON PROGRAMMING LAB

Course Objectives

- Use python to read and write files, work with python standard library.
- To learn how to design and program python application.
- To learn how to identify python object types.

Prerequisites		Prerequisites	Co-requisites		
Having basic knowledge of programming language.		asic knowledge of programming language.	PYTHON 3.8.6 SOFTWARE		
C	Course Outcomes (COs)				
	CO1	Write ,test and debug python programs.			
	CO2	Implements conditionals and loops for python programs.			
	CO3	Use functions and represent compound data using lists ,tuples and dictionaries			
	C04	Read and write data from and/to files in python and develop applications using python 3.8.6.			
	C05	To understand why python is a useful scripting language for developers.			
	C06	To Learn how to write functions and pass arguments in python.			