Course Name	Computer Architecture	Course Code	COMP 332		
Credit Hours	3	Contact Hours	Theory	Lab	Total
			2	2	4
Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement ☒ Core ☐ Elective ☐ ITEC ☒ COMP ☐ CNET				
Level	5	Prerequisite	COMP 231		

Course Description:

This course is about the structure and basic function of computers. Its purpose is to present, as clearly and completely as possible, the nature and characteristics of modern-day computer systems. This course cover all aspects of computer, from the underlying integrated circuit technology used to construct computer components, to the increasing use of parallel organization concepts. This course also focuses on different elements of Computer Organization And Major components which include processor, memory, I/O, control unit, registers, ALU, and instruction execution unit. It also discusses control signals for the operation and coordination of all processor components.

Upon completion, the student will be able to:

- Analyze and understand the architecture and organization of computing systems and electronic computer.
- Examines the major components of a computer and their interconnections, both with each other and the outside world.
- Study the program execution, instruction format and instruction cycle.
- Measure various internal architectures and organizations of the processor.
- Understanding of the architectural features of modern high performance computers.

Grading						
	☒ **Exam 1**	**10%**	☒ **Exam 2**	**10%**	☒ **Assignment(s)**	**20%**
	☒ **Final**	**40%**	☒ **Lab**	**20%**	☐ **Mini Project**	

Text Book:

- William Stallings ,"computer organization and architecture: Designing for performance", prentice hall,8th edition,ISBN-13:978-0-13-607373-4

References:

- Moris Mano, "Computer System Architecture", Prentice Hall , Third Edition, ISBN-13: 978-013166611