



**COLLEGE OF ENGINEERING AND APPLIED SCIENCES**

**NCIS209-FOUNDATIONS OF INFORMATION SYSTEMS**

**END OF FIRST SEMESTER EXAMINATIONS**

**NOVEMBER 2023**

**LECTURER: MRS L. TEMBANI-FUNDISI**

**DURATION: 3 HOURS**

### ***INSTRUCTIONS***

Answer ANY 4 (FOUR) Questions

Start each answer on a fresh page

Logical answering, smartness and use of examples will make you earn more marks

**Question One:**

With the aid of an example explain in detail the Systems Development Life Cycle (25)

**Question Two**

Explain in detail the 5 (five) major primary components of an information system and analyze which the one you think is the most important to the success of a business organization? (25)

**Question Three**

- a) What are the ethical things to consider in systems (5)
- b) Explain the factors affecting digital divide and inequality (10)
- c) What are the strategies for bridging the digital divide (10)

**Question Four**

Explain and outline the advantages and disadvantages of the following emerging trends and technologies in Information Systems.

- a) Cloud computing
- b) Artificial Intelligence
- c) Machine Learning
- d) Block chain
- e) Internet of Things (IoT) (25)

**Question Five**

Use examples to explain the following Business Applications of Information Systems

- a) Enterprise Systems (ERP, CRM, SCM)
- b) Business Intelligence and Analytics
- c) E-commerce and Digital Business (25)

**Question Six**

What are the legal and ethical implication of Information Systems? (25)

**END OF EXAMINATION**