



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
BUSIA LEARNING CENTRE  
2013/2014**

**Course Code: SCS203**

**Course Title: INFORMATION SYSTEM ANALYSIS AND DESIGN**

**DATE: AUGUST 2013**

**DURATION: 2HOURS**

**INSTRUCTIONS:**

- 1. This paper contains FIVE questions**
- 2. Answer Question one(Compulsory) and any other two questions**
- 3. Write all answers in the book let provided**

**Q1. 30marks**

- (a) Briefly explain information system analysis and design (5 marks)
- (b) Identify and describe common types of information systems. (5marks)
- (c) What do we mean by information system prototyping? What are its benefits and limitations? (10 marks)
- (d) Explain briefly the steps information systems professionals follow to create new systems or to modify existing ones (5marks)
- (e) Explain the Waterfall model (5marks)

**Q2.20 marks**

- a) What are the advantages and disadvantages of building an information system using the traditional systems life cycle? 10marks
- b) Identify the common phases associated with the software/systems development life cycle. (10 marks)

**Q3. 20 marks**

- (a) Explain the meaning of structured system analysis and design (5marks)
- (b) Explain the purpose of structured systems analysis and design (5marks).
- (c) Explain in details the meaning of feasibility study in a system project (5 marks)
- (d) Describe the functions of entity relationship diagrams in structured systems analysis and design. (5marks)

**Q4. 20 marks**

- a) Discuss the types of information system project feasibility studies and state the importance of evaluating Information system project feasibility (10 marks)
- b) Explain the advantages and disadvantages of interview schedules and questionnaires as instruments of information system data collection process (10 marks)

**Q5. 20 marks**

(a) What is the difference between object-oriented software development and traditional structured methodologies? (5marks)

(b) What is an application software package? What are the advantages and disadvantages of developing information systems based on software packages? (15marks)