



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY
UNIVERSITY EXAMINATIONS FOR THE DEGREE OF MASTER OF SCIENCE
IN HEALTH INFORMATICS 1ST YEAR 2ND SEMESTER 2024/2025 ACADEMIC
YEAR**

MAIN CAMPUS

COURSE CODE: ICH522

**COURSE TITLE: DESIGN, IMPLEMENTATION AND EVALUATION OF
ELECTRONIC HEALTH RECORDS SYSTEMS**

EXAM VENUE: _____

STREAM:

DATE: 23/4/2025

EXAM SESSION: 9.00-12.00

TIME: THREE HOURS

INSTRUCTIONS

- 1. Answer any THREE questions**
- 2. Candidates are advised not to write on the question paper**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
- 4. No mobile devices (e.g. laptops, phones, e.t.c.) are allowed into the Examination Room**

QUESTION ONE**(20 MARKS)**

- a) Highlight the main principles of health information system design (10 marks)
- b) Describe the basic workflow of a health care organization using Electronic Health Records management system (10 marks)

QUESTION TWO**(20 MARKS)**

- a) Describe the history and background of Electronic health record (10 marks)
- b) Using examples, Discuss **FIVE** applications of telehealth technologies, using appropriate examples. (10 marks)

QUESTION THREE**(20 MARKS)**

- a) Discuss the importance of data security and Privacy in Electronic Health Records (10 marks)
- b) Discuss in details the four goals of health policy in health care management. (10 Marks)

QUESTION FOUR**(20 MARKS)**

- a) As a medical health rerecords officer, you will bear the responsibility of collecting health case statistics. Explain four uses of health care statistics collected at a hospital/health care facility. (10 Marks)
- b) Discuss **FIVE** social-economic/social cultural indicators of the health status of a community. (10 Marks)

QUESTION FIVE**(20 MARKS)**

- a) State any **FIVE** elements of primary health care and explain how these element have helped Kenya to improve health of the communities. (10 Marks)
- b) Describe the elements of data security applicable on health information system (10 Marks)