



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

CENTRE: KISII LEARNING CENTRE

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
PUBLIC HEALTH**

(FULL TIME)

1st YEAR 2nd SEMESTER 2013/2014 ACADEMIC YEAR

SCS 3124: INFORMATION TECHNOLOGY AND SOCIETY

INSTRUCTIONS

- 1. Answer question ONE(Compulsory) and any other TWO Questions**
- 2. Do not write anything on this question paper**

QUESTION ONE 30marks(COMPULSORY)

- a) Define human-computer interaction (HCI) (2 Marks)
- b) Explain the four kinds of structural organizational change that are enabled by information technology(8 Marks)
- c) Describe the components of an information system (12 Marks)
- d) Discuss the benefits of e-commerce and e-business (4 marks)
- e) Explain the following terms as used in information security and give examples for each
 - i. Threats (2 Marks)
 - ii. Attacks (2Marks)

QUESTION TWO

- a) Discuss the impact of information communication technology (ICT) on society(10Marks)
- b) Define information security(2 Marks)
- c) A system is a set of interacting components that work together to accomplish specific goals. Outline the importance of systems theory(8 Marks)

QUESTION THREE

- a) State and explain the critical characteristics of information (8 Marks)
- b) Define Ethics (2 Marks)
- c) State and explain the basic concepts for ethical analysis(4 Marks)
- d) Explain four limitations of e-Commerce/e-Business (4 Marks)
- e) What is information society? (2 Marks)

QUESTION FOUR

- a) State and explain the usability heuristics for user interface design (10 Marks)
- b) List five moral dimensions of the information age (5 Marks)
- c) Explain the role of information in management (5 Marks)

QUESTION FIVE

- a) Explain five internet Benefits to Organizations (5 Marks)

- b) Discuss the impact of new technologies on business process (10 Marks)
- c) Describe how information systems promote quality (5 marks)

Jaramogi Oginga Odinga University of Science and Technology

SCS 3124: Information Technology and Society

Course Outline: Jan-April 2014

Instructor: Mr. Fred Wright

Email: wrightfred5@gmail.com Phone: 0729713175

Contact Hours: 45

Lecture Hours: 45

Credit Hours: 3

Pre-requisites:

Learning objective:

The objective of this course is to introduce students to the basic concepts and applications of computer and internet related information technology and its impacts on individual users, business groups, organizations and society

Expected Learning Outcomes:

By the end of the unit, a learner should be able to:

- i) Understand the roles information systems in business organizations
- ii) Access and use information
- iii) Understand the social, ethical and legal issues in information systems
- iv) Understand the impact of ICT on society and the human computer interaction basics

Course description:

Introduction to information society ; Access, evaluation and use of digital information ; information security; system concept/theory; components of information systems; Systems as planned organizational change,the spectrum of organizational change; e-business/e-commerce, Human computer interactions basics; social aspects of information systems, economic and legal issues; information systems security goals; ethical use and dissemination of health information and professional presentation and communication of information

Teaching Methodology; lectures; class discussion; reading assignments and tutorials

Instructional Materials: chalk board; Handouts; Textbooks

Assessment: End of semester examination- 70%; (Assignments andCATs) - 30%; Total - 100%

REFERENCES

1. Information Technology for Management: Transforming the business in the digital Economy. Turban McClean, Wetherbe. John Wiley & sons. 2002.
2. *Principles of information security* ,Michael E. Whitman ,Herbert J. Mattord
3. Schneider, Gary, P., "*Electronic Commerce*", Thomson Course Technology, Seventh Annual Edition, 2007
4. Heim, S. (2008). *The Resonant Interface: HCI Foundations for Interaction Design*, Addison-Wesley