



# MURANG'A UNIVERSITY OF TECHNOLOGY

## COURSE OUTLINE

**Unit Code: SIT 400: UNIT TITLE: Management Information Systems**

**Pre-requisite:** Systems and Analysis and Design

**Department:** Information Technology

**Lecturer's Name:** John Kihiu

**Lecturer's Tel. No.** 0724402062 **Email Address:** jkihiu@mut.ac.ke

**Contact Hours:** 45 **Credit hours:** 3 hours

**Semester:** Jan-Apr 2022 **Academic Year:** 2021/2022

### **Course Purpose**

This course examines the fundamental principles associated with the strategic adoption, implementation, use and evaluation of information systems in organizations.

### **Learning Outcomes**

Upon completion of this course, students should be able to:

- i. Analyze the business issues, processes, and techniques associated with organizational information systems.
- ii. Assess and explain global issues surrounding the adoption of information technology;
- iii. Explain basic **concepts about information systems** development, implementation and review; and
- iv. Identify critical issues faced by the MIS profession
- v. Identify how **MIS shapes and controls current (or prospective) jobs** and how to use this insight to improve your own job performance and satisfaction and **enhance your career prospects**
- vi. Become familiar with the **major trends in MIS and MIS infrastructures** (Cloud, Big Data, ERPs, outsourcing) and how these evolutions will affect workplaces and business strategies
- vii. Bridge the MIS-related second **"digital gap"** that exists, after basic computer literacy, in most professional jobs

### **Teaching Methodologies**

Lectures, practical and tutorial sessions in Computer Laboratory, individual and group assignments, exercises and project work

### **Instructional Materials/Equipment**

Overhead projector and computer, handouts, white boards, Textbooks, appropriate software. Network and internetworking devices, Operating Systems, networking toolkit

### **Course Assessment**

30% Continuous Assessment (Tests 10%, Assignment 10%, Practical 10%)

70% End of Semester Examination.

### **Course Text Books**

1. Turban, E., Pollard, C., & Wood, G. (2018). Information Technology for Management: On-Demand Strategies for Performance, Growth and Sustainability. Wiley. <https://books.google.co.ke/books?id=hJZXDwAAQBAJ>
2. Jha, D. G. (2013). Computer Concepts And Management Information Systems. Phi Learning. <https://Books.Google.Co.Ke/Books?Id=Ycmdlf7xetic>

### **Reference Text Books**

1. Galliers, R. D., & Currie, W. (2011). The Oxford Handbook of Management Information Systems: Critical Perspectives and New Directions. OUP Oxford. <https://books.google.co.ke/books?id=yRUTjTGj\ BcC>
2. Rainer, R. K., & Prince, B. (2015). Introduction to Information Systems, 6th Edition. Wiley. <https://books.google.co.ke/books?id=Zr52CwAAQBAJ>

### **Course Journals**

1. International journal for information and communication technology research ISSN 6790456
2. Computer science journal ISSN 0348-70067
3. Acta Informatica ISSN 0001-5903

#### Reference Journals

1. Journal of computer science and technology ISSN- 0916-534276
2. Journal of Computing ISSN-1002-784536
3. Directory of Open Access (DOAJ): Computer Science, ISSN 0034-567352

#### Course Description

WEEK	TOPIC	SUBTOPIC
1	Information Systems concepts	Classifications of information systems. Information system infrastructure, managing information resources
2	Application of MIS in organizations	The Communications revolution – Distributed Information Systems Types of networks and distributed MISs architectures.
3	<b>CAT ONE</b>	
4	Strategic information systems:	Strategic advantage of information technology. Transaction processing and management reporting. Information systems and decision making. Decision support and executive support systems(DSS, ESS).
4	Integrated Information Systems (ERP) and Integrated Business Processes	Information systems development. The evolution of IT planning,
5	Costing MIS	Evaluating IT benefits, costs and performance. Managing information system resources.
6	<b>CAT TWO</b>	
7-8	Impact of MIS	IT impact: on organizations, on individuals at work, societies. Telecommunications and Networks). Data, Databases, Big Data
9	<b>MIS in the Internet Age:</b>	Internet, Electronic commerce and electronic business. Business application and the Internet. Enhancing management decision making.
10	<b>CAT THREE</b>	
11-12	Design and deployment of MIS	Implementing and customizing ERPs and other major MISs. Who adapts to whom? Backup and Business Process Reengineering, customizing the ERP system
13	Global information systems	

14-15	<b>EXAMS</b>	
-------	--------------	--