

**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 | **CAT ONE** |  |
| 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 | **CAT TWO** |  |
| 7-8 | Impact of MIS | IT impact: on organizations, on individuals at work, societies. Telecommunications and Networks).  Data, Databases, Big Data |
| 9 | **MIS in the Internet Age:** | Internet, Electronic commerce and electronic business. Business application and the Internet. Enhancing management decision making. |
| 10 | **CAT THREE** |  |
| 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 | **EXAMS** |  |