

<b>Instructor:</b>	<b>Dr Joshua Rumo A Ndiege</b>
<b>Consultation Hours:</b>	<b>M-R 8:00am – 10:30a.m, 3:00pm – 4:00pm</b>
<b>E-mail:</b>	<b>jrumo@usiu.ac.ke</b>
<b>Classroom:</b>	<b>LAB-2</b>
<b>Class Times:</b>	<b>Tuesday 5:40pm – 9:00p.m</b>

### **TITLE OF THE COURSE: MIS6160 IT PROJECT MANAGEMENT**

*Pre-requisite: None*

*Credits Units: 3*

### **Purpose of the Course**

The purpose of this course is to expose students to factors that influence management of information systems development or enhancement of projects. Both technical and behavioural aspects of project management are applied within the context of an information systems project development.

### **Expected Learning Outcomes**

By the end of this course, students will be able to:

1. Describe the evolution of project management and explain its importance to improving the success of information technology projects.
2. Discuss the benefits and difficulties of good project management.
3. Explain the project management life cycle and be able to construct a project management method which includes scope, time, cost and resource management.
4. Apply project management methodologies across the key knowledge areas.
5. Explain the role of risk management and quality management in project management.
6. Explain the role of communications and management skill in managing projects.
7. Set up and manage a small project in Microsoft Project.

### **Course Content**

The Nature of IT Projects; IT Project Conceptualization; Project Charter and Baseline Project Plan; Social Aspects in IT Project Management; Project Scope and Configuration Management; Software Size Estimation and Project Breakdown; Project Scheduling and Budgeting; IT Project Risk Management; Project Communication and Control; IT Project Quality Management; Capability Maturity Model; Management of Organizational Change; System Components Procurement and Integration; Project Leadership and Ethical Issues; IT Project Implementation and Evaluation;

### **Mode of Delivery**

Lectures and delivery through the Blackboard e-learning platform. Presentations by members of the class, Case discussions, Tutorials, Assignments, group work, practical laboratory-based work, Library, manual/notes, classroom based tutorial exercises and directed self-study.

### **Instructional Materials and/or Equipment**

Course text, Handouts, White board, Smart board, LCD Data projector, Presentation slides, Blackboard e-learning platform and Journals.

### **Course Assessment**

Class assignments, take-home assignments, tests, small projects to demonstrate use of software tools;

Quizzes	20%
Lab exercises	15%
Group Project	10%
Participation and Attendance	5%
Mid-semester	20%
Final semester exams	30%
<b>Total</b>	<b><u>100%</u></b>

### **Content & Class Schedule**

<b>Week</b>	<b>Topics</b>	<b>Class Activity</b>	<b>References</b>
1	Course Introduction Introduction to Project Management The Project Management and Information Technology Context	Introductions Lecture & Discussions	Course text Chapter I and Handouts
2	The project management process groups	Lecture, Group Discussions Lab: Introduction to MS Project	Course text Chapter 2 & 3 Handouts
3	Project Integration Management	Lecture, Group Discussions	Handouts
4	Managing Scope in IT projects	<b>Quiz 1</b> and Lecture	Course text Chapter 5 Handouts

5	Project Time Management	Lecture, Group Discussions Lab: Creating WBS	Course text Chapter 6 Handouts
6	Project Cost Management	Lecture, Group Discussions Lab: Costing resources	Course text Chapter 7 Handouts
7	<b>Mid Semester</b>		
8	Addressing quality issues in IT Projects	Lecture and Discussions Lab: Pareto Chart	Course text Chapter 10 Handouts
9	Project Human Resource Management Managing communications in IT Projects	Lecture & Group Discussions Lab: Allocating human resource to work items	Course text Chapter 4 & 9 Handouts
10	Project Risk Management	<b>Guest Lecture</b> Lecture, Group Discussions	Course text Chapter 8 Handouts
11	Procuring IT Projects Managing Stakeholders	Lecture, Lab Exercises and <b>Quiz 2</b>	Course text chapter 12 Handouts
12	International Projects Managements - Issues	Lecture and Discussions	Handouts
13	Group Project Presentations Revision Week and Tutorials	Discussion	N/A
14	<b>Final Exam</b>		

## Core Reading Materials

- Marchewka, J.T. (2006). *Information Technology Project Management: Providing Measurable Organizational Value*. Hoboken, New Jersey: John Wiley.

## Recommended Reference Materials

- Kathy Schwalbe (2014). *Information Technology Project Management 7<sup>th</sup> Edition*, Course Technology, Cengage Learning
- Roger, et al. (2012). *Project Management for IT-related Projects: Bookseller 2<sup>nd</sup> Edition*, BCS, Swindon, UK: The Chartered Institute.
- Cleland, David I. & Gareis, Roland. *Global project management handbook*. "The. New York, NY: McGraw-Hill Professional, 2006.
- Dinsmore, Paul C. et al. *The right projects done right!* Hoboken, NJ: John Wiley and Sons, 2005.
- Gray, Clifford F. & Larson, Erik W. *Project management: The managerial process 4e*. New York, NY: McGraw-Hill. 2008.
- Frame, J. Davidson, *Managing Projects in Organizations: How to Make the Best Use of Time, Techniques, and People, 3<sup>rd</sup> edition*. **San Francisco, CA:** Jossey-Bass, 2003.
- Gray, Clifford F. & Larson, Erik. *Project management: The Managerial Process 4e*. New York, NY: McGraw-Hill. 2008.
- Kerzner, Harold, **Project Management: Project management: A systems approach to planning, scheduling, and controlling, 10<sup>th</sup> edition**, Wiley, 2009, ISBN 0-470-27870-6
- Larson, Elizabeth and Richard, **Requirements management, Part 1: Requirements planning. Minneapolis, MN:** Watermark Learning, Inc., 2009, ISBN 978-0578019598
- Lewis, James, *The Project Manager's Desk reference (3<sup>rd</sup> ed.)*. McGraw-Hill, 2006.
- Lock, Dennis (2007) *Project management (9e ed.)*. Aldershot , UK: Gower Publishing, Ltd., 2007.
- Meredith, R. Jack and Mantel, Jr., Samuel J., *Project management: A managerial approach, 7<sup>th</sup> edition*, Wiley, 2008, ISBN 0-470-22621-8

## Journals

- Project Management Journal. Access at [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1938-9507](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1938-9507)
- Klian, Ralph & Anderson, Harris. Teambuilding styles and their impact on project management results. Project Management Journal. Retrieve from [http://www.oelibrary.org/articles/other/Project\\_Management\\_Journal.pdf](http://www.oelibrary.org/articles/other/Project_Management_Journal.pdf)
- Ng, Edmond. Information Technology Project Management. Retrieve from <http://www.edvencomm.net/itpm.pdf>
- "Project Management Guide". VA Office of Information and Technology. Retrieve from. [http://www.ppoe.oit.va.gov/docs/VA\\_IT\\_PM\\_Guide.pdf](http://www.ppoe.oit.va.gov/docs/VA_IT_PM_Guide.pdf).
- Sherrer, J. Alex. *Deming's 14 Points and Quality Project Leadership*. Retrieve from <http://www.pmhut.com/demings-14-points-and-quality-project-leadership>
- Stellman, Andrew; Greene, Jennifer (2005). *Applied Software Project Management*. O'Reilly Media. ISBN 978-0-596-00948-9. Retrieve from <http://www.stellman-greene.com/aspm/>