

**UNIVERSITY OF EASTERN AFRICA, BARATON**

**SCHOOL OF BUSINESS**

**DEPARTMENT OF INFORMATION SYSTEMS AND COMPUTING**

**INSY 397: SOFTWARE PROJECT MANAGEMENT**

**1ST SEMESTER 2021-22**

CREDITS: 3

INSTRUCTOR: Nyamwamu Roseline, (MSc IT)

LECTURES HOURS: MWF 9-10AM

EMAIL: [rose@ueab.ac.ke](mailto:rose@ueab.ac.ke)

**COURSE DESCRIPTION**

This course covers the factors necessary for successful management of I.T. system development and enhancement projects. Both the technical and behavioural aspects of project management are discussed, such as project management fundamentals, planning, estimation and budget scheduling, risk and change management, development management, project control, system test process, final phases and other issues.

**Expected Learning Outcomes**

1. Manage the selection and initiation of individual projects and of portfolios of projects in the enterprise.
2. Conduct project planning activities that accurately forecast project costs, timelines, and quality. Implement processes for successful resource, communication, and risk and change management.
3. Demonstrate effective project execution and control techniques that result in successful projects.
4. Conduct project closure activities and obtain formal project acceptance.
5. Demonstrate a strong working knowledge of ethics and professional responsibility.
6. Demonstrate effective organizational leadership and change skills for managing projects, project teams, and stakeholders.

**Grading:**

Final Exam 50%

Midsemester 30%

Group project /assign 20%

**N/B:** The final examination will carry 50% of the final grade and the rest of the aspects in the above section will carry the other 50%.

The grades will be computed as follows:

85 -100 **A** 80 - 84 **A-** 75 - 79 **B+** 70 – 74 **B**65 – 69 **B -** 60 – 64 **C+**

55 - 59 **C**  50 – 54 **C-** 40 - 49 **D** 0 - 39 **F**

**Method of Instruction:**

Class Lectures, Tutorials, Group discussion and class projects

**Assessment Rationale:**

Purpose of assessment is to evaluate the learning outcomes.

**Topics**

|  |  |
| --- | --- |
| **Week** | **Topic** |
| Week 1 | Introduction to Project Management   * Definition of terms * How project management relates to other disciplines * The project management profession |
| Week 2 | The Project Management and Information Technology Context   * A system overview of project management * Stakeholder management * Project phases and the project life cycle |
| Week 3 | The Project Management Process Groups   * Project management process groups * Developing an IT project management methodology |
| Week 4 | Project Integration Management   * Project plan development * Project plan execution * Integrated change control |
| Week 5 | Project Scope Management   * Definition of terms * Project initiation * Scope planning and scope statement * Scope definition and WBS * Scope verification and scope change control |
| Week 6 | Project Time Management   * Importance of project schedules * Activity definition and sequencing * Activity duration estimation * Schedule development * Change control |
| Week 7 | Project Cost Management   * Overview * Basic principles of cost management * Cost estimation, budgeting and control |
| Week 8 | Project Quality Management   * Quality of IT projects * Quality planning, assurance and control |
| Week 9 | Project Human Resource Management   * Overview of human resource management * Organization planning * Project staff acquisition * Team development |
| Week 10-11 | Project Communication Management   * Importance of project communication management * Information distribution |
| Week 12 | Project Risk Management   * Overview of project risk management * Risk management planning * Risk identification, analysis and response planning * Risk monitoring and control |
| Week 13 | Project Procurement Management   * Importance of project procurement management * Procurement planning * Solicitation * Source selection * Contract administration and close-out |
|  |  |
| Week 14 | **REVISION** |

**Recommended Reference Materials:**

Stellman, Andrew; Greene, Jennifer (2013).[*Applied Software Project Management*](http://www.stellman-greene.com/aspm/).O'Reilly Media.[ISBN](http://en.wikipedia.org/wiki/International_Standard_Book_Number) [978-0-596-00948-9](http://en.wikipedia.org/wiki/Special:BookSources/978-0-596-00948-9).

Information Technology Project Management Revised 8th Edition, Kathy Schwalbe (2016)

# A Guide to the Project Management Body of Knowledge (PMBOK® Guide)–Fifth Edition5th

Kelkar, S.A., Information Technology Project Management, 3rd edition, PHI ... Pressman, R.S., Software Engineering, McGraw-Hill International Editions, USA