BACHELOR OF TECHNOLOGY IN COMPUTER TECHNOLOGY / INFORMATION TECHNOLOGY / COMMUNICATION AND COMPUTER NETWORKS

Code & Name	**ECSI 2106: PROJECT MANAGEMENT**
Prerequisite	SYSTEM ANALYSIS AND DESIGN
Class	SCCI/2019, SCII/2019 & SCCJ/2019
Lecturer	Elizabeth
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Purpose of the Course

- Understand the growing need for better project management, especially for information technology (IT) projects
- Explain what a project is, provide examples of IT projects, list various attributes of projects, and describe the triple constraint of project management
- Describe project management and discuss key elements of the project management framework, including project stakeholders, the project management knowledge areas, common tools and techniques, and project success

Expected Learning Outcomes

At the end of this course learners will be able to apply the concepts learnt in project management

Course Description

Introduction: Introduction to Project Management, Project, and Project Attributes, Project and Program Managers, the Project Team, Tuckman Ladder, Triple Constraint, Stakeholders, Project Success, Project Portfolio Management, Global Issues, Project Management Lifecycle. Project Types and Initiation: Project Types, Project Selection, Project Selection Models, Risk considerations in Project Selection. Project Planning: Introduction, Planning components, Planning Steps, Activity Planning. Network Diagramming: Introduction, Network Models, Critical Path, On Arrow Networks, Precedence Networks, Gantt Charts. Cost Benefit Evaluation: Net Profit, Payback Period, Return on Investment, Cost-Benefit Evaluation Techniques, Net Present Value, Environmental Impact Assessment, Risk Analysis. Software Project Effort, Size and Cost Estimation: Basis for Estimation, Estimation Issues, Estimation Techniques, Function Point Analysis. Project Quality Management: Project Quality, Planning Quality, Scope Aspects of IT Projects, Check sheet, Six Sigma-DMAIC. Risk Analysis and Management: The Risk Breakdown Structure, Managing Risks, Risk management process. Software Configuration Management: Introduction, Software Evolution, Configuration Management, SCM. Leadership, Team Dynamics, Progress Tracking & control, Progress Assessment & reporting, Scope Management, Risk Mitigation, Project Closeout, Collection of re-useable components, Critical Path Method (CPM), Project Funding.

Mode of Delivery

Lectures, tutorial sessions, individual and group assignments, exercises

Learning Resources
Books, Computers, projectors, Internet, Journals, Software Whiteboard and Markers

Course Assessment
1. Course work (Practical's, Assignments, CATs) 30%
2. Final Exam 70%

Course Textbooks
1. Project Management. A managerial Approach by Jack R. Meredith, Samuel J. Mantel Jr. 7th Edition
2. Project Management in Practice Samuel J. Mantel Jr., Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton 4th Edition

Course Journals
1. International Journal of Project Management - Journals – Elsevier
2. The Journal of Modern Project Management
3. Project Management Journal: SAGE Journals

Reference Textbooks
1. Information Technology Project management, Kathy Schwalbe, 6th Edition
2. Project Management in Practice Samuel J. Mantel Jr., Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton 4th Edition

Reference Journals

1. Project Management Journal | PMI
2. The Journal of Modern Project Management
3. Project Management Journal: SAGE Journals

Approved by: _____ Signature: _____ Date: _____