

Course Title and Code

IT 352 Information Systems Analysis and Design

VI. Course Identification and General Information:

Course Title	Information Systems Analysis and Design	Course Code	IT 352	Pre-requisite	IT 251
Department	Information Technology	Course Level	6	Credit Hours	3(3+0)

VII. Course Description/Topics: The following course topics will be covered.

Introduction to Information System, methods and skills needed to analyze, design and implement computer based System. Role of System Analyst and the techniques employed, Identifying and selecting system development life cycle approach, System development phases are comprehensively discussed. The modeling techniques; Process Modeling (DFD), Data Modeling (ERD), Architectural System Design Modeling, UML, Object Oriented Modeling. Initiating and Planning Systems Development Projects, Determining Systems Requirements, Structuring Systems Process Requirements, Structuring System Logic Requirements, Structuring System Data Requirements, System Implementation, Maintaining Information Systems.

VIII. Course Outcomes: Summary of the main learning outcomes for students enrolled in the course.

- When asked, in writing, students will be able to describe the Information System
- When asked, in writing, students will be able to describe the role of System Analyst
- When asked, in writing, students will be able to describe the Information System Development life cycle (SDLC)
- When asked, in writing, students will be able to describe the modeling techniques
- When asked, in writing, students will be able to identifying system development project
- When asked, in writing, students will be able to arrange project activities
- When asked, in writing, students will be able to initiate and plan system development project
- When asked, in writing, students will be able to define system requirements
- When asked, in writing, students will be able to implement information system
- When asked, in writing, students will be able to plan to maintain the Information System

IX. Required Text:

- Modern System Analysis & Design, 6th edition, 2011, Jeffrey A. Hoffer, Prentice Hall.

X. References:

- Essentials of Systems Analysis and Design, 5/E edition, 2011, Jeffrey A. Hoffer, Prentice Hall.