CIS 210 – Systems Analysis and Development

Course Description

This course provides an understanding of the methodology and scope of business information systems analysis and design, and their relationship to the management process. The systems approach and its techniques of problem-solving are emphasized.

Instructional Materials

Shelly, Rosenblatt. (2012). *Systems Analysis and Design* (9th ed.). Boston: Thomson Course Technology

Course Learning Outcomes

1. Describe the types of business needs that can be addressed using information technology-based solutions.
2. Identify system stakeholders and formulate their needs.
3. Create requirements for a system through a formal technique that enables a productive change in a way the business is conducted.
4. Summarize effective communication techniques with various organizational stakeholders to collect information using a variety of techniques and to convey proposed solution characteristics to them.
5. Demonstrate the methods to initiate, specify, and prioritize information systems projects and determine various aspects of feasibility of these projects.
6. Identify and classify the roles played by external users of a system.
7. Create information systems projects using formal project management methods.
8. Summarize the various requirements modeling techniques.
9. Distinguish between non-functional and functional requirements.
10. Explain and give examples of use cases and their structure.
11. Create a use case based on relating functional requirements.
12. Explain how use cases drive testing throughout the system life cycle.
13. Explain various systems acquisition alternatives, including the use of packaged systems (such as ERP, CRM, SCM) and outsourced design and development resources.
14. Create and compare acquisition alternatives systematically.
15. Design high-level logical system characteristics (user interface design, design of data, and information requirements).
16. Write clear and concise business requirements documents and convert them into technical specifications.
17. Analyze and articulate ethical, cultural, and legal issues and their feasibilities among alternative solutions.
18. Explain how requirements gathering and quality assurance fit into a system development life cycle.
19. Use contemporary CASE tools in process and data modeling.
20. Use technology and information resources to research issues in systems analysis and development.
21. Write clearly and concisely about systems analysis and development topics using proper writing mechanics and technical style conventions.