Information Technology Project Management

2023-2024 Catalog

[ARCHIVED CATALOG]

CPIN 269 - Information Technology Project Management

PREREQUISITES: SDEV 140 - Introduction to Software Development or DBMS 130 - Data Management using Structured Query Language or CSIA 105 - Introduction to Cyber Security/Information Assurance or CSCI 101 or program chair approval.
PROGRAM: Computing and Informatics
CREDIT HOURS MIN: 3
LECTURE HOURS MIN: 2
LAB HOURS MIN: 2
DATE OF LAST REVISION: Fall, 2020

Students will work within a team to identify and employ methodologies pertinent to the assessment, design and operation of business computer information systems. Teams will analyze and implement established and evolving methodologies for the development of a business-oriented computer environment. Students will develop individual and team competencies working to employ current software tools to generate and illustrate the flow of the actual development of a project.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Describe the prerequisites for and conditions under which new methodologies and software tools are appropriate for use in project management.
2. Apply software tools to the development of systems to solve problems.
3. Determine project management techniques and the importance of these skills to improve the success of information technology projects.
4. Discuss the roles of the various project team members in relation to the development of computer systems.
5. Identify and distinguish among design methodologies and project management techniques used in system projects for diverse organizational structures.
6. Identify the major properties of project planning as they relate to cost analysis.
7. Compile comprehensive documentation of an information system project.
8. Explain the significance of the various forms of documentation as they relate to the evolution of the information system for a real-world scenario.
9. the criteria used for the evaluation and selection of computer equipment and software.
10. Present a project management proposal that is based on a selected real-world scenario.
11. Distinguish how project management brings people of different skills together, utilizing global/cultural diversity, and increasing cultural awareness.
12. Utilize appropriate principles of team dynamics to collectively determine an appropriate approach to a specific project.

COURSE CONTENT: Topical areas of study include -

- Unified Modeling Language
- Structure Charts
- Flowcharts
- Data Dictionaries

- Prototyping
- Object-oriented
- Case tools
- Team dynamics
- Project management
- Conversion methods
- Total cost of ownership
- Return on investment
- Scrum
- Six Sigma
- Agile
- Lean
- Systems Development Life Cycle
- Diversity in Teams

Course Addendum - Syllabus (Click to expand)
