THOMPSON RIVERS UNIVERSITY

Course Outline

Department of Management
School of Business and Economics

BBUS 4630-3
Information Technology Project Management for Business (3,0,0)

Calendar Description

Students develop knowledge and experience in project management, as it applies to software and information systems development. Topics include the foundation of information technology (IT) project management; project management process stages; developing the project charter and baseline project plan; the human side of project management; defining and managing project scope; the work breakdown structure and project estimation; the project schedule and budget; managing project risk; project communication, tracking, and reporting; IT project quality management; and project implementation and evaluation.

Educational Objectives/Outcomes

Upon completing this course, students will be able to:

1. Describe the key elements of the project management framework, including project stakeholders, project management knowledge areas, tools and techniques, and project success factors.
2. Explain the five project management process stages, the typical level of activity, and outcomes for each stage.
3. Develop a project plan for a small IT project.
4. Outline issues in project staff acquisition, resource assignments, and resource loading and leveling.
5. Describe the scope planning process and the contents of a scope management plan.
6. Develop a work breakdown structure and estimates for project tasks.
7. Perform project scheduling and critical path analysis.
8. Summarize the elements of risk management planning and the contents of a risk management plan.
9. Create a project communication plan and monitor the progress of a small IT project.
10. Apply various tools in project quality management.
11. Identify and select project implementation methods.

Prerequisites

MIST 3620; MIST 3630; MIST 4620

Co-requisites

None

Texts/Materials

Marchewka, Jack, <u>Information Technology Project Management</u>, 3rd Edition, Wiley.

Schwalbe, Kathy, <u>Information Technology Project Management</u>, 6th Edition, Course Technology.

Student Evaluation

Participation	0%-10%
Tests/Quizzes	20%-30%
Case Studies/Simulation/Assignments	20%-30%
Final Exam	30%-45%

Students must pass the final exam to pass the course.

Course Topics

1. Foundation of IT Project Management
   - The Nature of Information Technology Projects
   - Why IT Projects Fail?
   - The Context of Project Management
   - The Project Life Cycle and IT Development
   - Extreme Project Management

2. Project Management Process Stages
   - Initiation
   - Planning
   - Execution
   - Monitoring and Controlling
   - Closing

3. Developing the Project Charter and Baseline Project Plan
   - Project Selection and Approval
   - Project Integration management
   - The Project Charter and Detailed Plan
   - Project Planning Framework
   - Define the Project's Scope
   - The Baseline Plan – Budget and Schedule

4. The Human Side of Project Management
   - Organization and Project Planning
   - The Project Team
   - The Roles of the Project Manager
   - Team Selection and Acquisition
   - The Project Environment and Team Performance

5. Defining and Managing Project Scope
   - Project Scope Management Process
   - Scope Planning

- Project Scope Definition
- Project Scope Verification
- Scope Change Control

6. The Work Breakdown Structure and Project Estimation
   - Deliverable and Milestones
   - Developing the Work Breakdown Structure
   - Project Estimation Techniques
   - Software Engineering Metrics and Approaches
   - Estimating IT Projects to Minimize Overruns

7. The Project Schedule and Budget
   - Developing the Project Schedule
   - Gantt and PERT Charts
   - Project Network Diagrams
   - Critical Path Analysis
   - Developing the Project Budget
   - Project Management Software Tools

8. Managing Project Risk
   - Risk Identification, Assessment, and Planning
   - Identifying IT Project Risks
   - Risk Strategies
   - Risk Monitoring and Control

9. Project Communication, Tracking, and Reporting
   - The Project Communication Plan
   - Project Metrics
   - Reporting Performance and Progress

10. IT Project Quality Management
    - Quality Tools
    - Quality Systems (ISO, Six Sigma, CMMI)
    - The IT Project Quality Plan

11. Project Implementation and Evaluation
    - Project Procurement Management
    - Outsourcing
    - Project Implementation Methods
    - Project Evaluation

Methods for Prior Learning Assessment and Recognition

As per TRU policy

Attendance Requirements – Include if different from TRU Policy

As per TRU policy

Special Course Activities – Optional

Use of Technology – Optional