

IT360 – Enterprise Software (new course)

Syllabus

1. INSTRUCTOR.

Oscar Gutierrez
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Office Hours:
Tue/Thu 10:00-11:00 AM
Mon/Wed 2:00-3:00 PM
Or by appointment

2. COURSE TEXT AND MATERIALS.

Ptak C.A. and Scheegenheim E., “ERP: Tools, Techniques and Applications for Integrating the Supply Chain”, Second Edition, St. Lucie Press, 2004, ISBN 1-57444-358-5.

Hamilton S., “Maximizing your ERP System: A Practical Guide for Managers”, McGraw Hill, 2003, ISBN 0-07-140611-5. (Optional)

Hamilton S., “Managing Your Supply Chain using Microsoft NAVISION”, McGraw Hill, 2004, ISBN 0-07-143524-7.

3. LEARNING OBJECTIVES.

This course explains the core applications of a typical organization to support their fundamental business functions. It explains the role of IT in attaining competitive advantage and how modern organizations configure commercially available products to satisfy their information needs. The course makes extensive use of collaborative technologies and business applications to demonstrate the work of virtual teams and how they implement their operations. The specific learning objectives of this course are to enable the student:

- To understand Enterprise Resource Planning (ERP) systems and how they enhance the productivity of critical resources,
- To understand the necessary business and organizational characteristics for the adoption of integrated resource planning systems,
- To review the core logistics processes of a typical manufacturing organization,
- To understand the challenges and techniques for the selection of integrated ERP systems,
- To identify the business components of typical ERP systems,
- To identify the technical components of typical ERP systems,

- To develop practical understanding into the configuration and use of one ERP system
- To demonstrate in-depth understanding of the operational capabilities of at least one application area

4. COURSE FORMAT AND EVALUATION.

This is a hands-on demanding course that involves a series of individual and group projects to be completed using Microsoft Navision, an ERP package for medium size organizations.

The final evaluation will be based on a combination of these projects, exams, and class participation as follows:

Evaluation item	Weight
Projects	40%
Mid-term exam	25%
Final exam	25%
Participation	10%

5. ADMINISTRATIVE NOTES.

This is a placeholder for statements on course policies, academic integrity, disabilities, etc.

6. COMPUTER ACCESS AND RESOURCES.

Microsoft Navision is required for this course, and is available in the labs. You will receive guidelines for accessing the system and for downloading the required client portions of the system so that you can complete your projects and assignments. Guidelines, instructions and accounts will be distributed at a later date. Note that there are 35 concurrent licenses available for this course, which gives you the certainty, that you will be able to log on to Navision at any time when the system is available.

7. SCHEDULE, TOPICS AND COMPETENCIES.

Week	Topics and Competencies	Readings
1	History of Enterprise Resource Planning The Theory of Constraints and ERP	Ptak: Chapters 1 and 2
2	ERP Selection and Implementation	Ptak: Chapters 13 and 15

3	Introduction to Navision Introduction to three company cases	Microsoft Documentation
4	Strategic sourcing and procurement Dealing with distribution items and purchased materials	Ptak: Chapter 7 Hamilton: Chapter 2 and Chapter 6
5	Sales and operations planning: demand, supply and financials planning	Ptak: Chapter 3 Hamilton: Chapter 4
6	Navision Practice (Planning)	Microsoft Documentation
7	Sales order processing	Hamilton: Chapter 5
8	Navision Practice (SOP)	Microsoft Documentation
9	Materials Planning Warehouse Management	Ptak: Chapter 8 Hamilton: Chapter 7
10	Navision Practice (WM)	Microsoft Documentation
11		
12	Manufacturing Execution Production Order Processing	Ptak: Chapter 10 Hamilton: Chapter 8
13	Navision Practice (POP)	Microsoft Documentation
14	Data Accuracy in ERP implementation	Ptak: Chapter 14
15	ERP System Requirements	Ptak: Chapter 12