ENTERPRISE RESOURCE PLANNING - ACCT5123

Syllabus

1. GENERAL INFORMATION:

Instructor name: Email:

Credit: 3 (3 lecture).

Prerequisite:

2. COURSE INFORMATION:

- Course description:

This course is designed to provide the student with a thorough understanding of both the role that Enterprise Resource Planning Systems (ERPs) play in an organization and the challenging task of managing the Information Systems (IS) function. During the semester, homework will be assigned that afford the student the opportunity to work through many real-life business situations using the SAP ECC system and explore the interaction among the different business processes. SAP is the world's leading provider of Enterprise software designed to integrate every aspect of a company's operation. The hands-on exercises, coupled with the in-class discussions of ERPs, will prepare the student with the knowledge sought by businesses looking to use technology to maintain their competitive edge in the market place.

- Course objectives:

At the completion of the course, students will be able to

- Describe the role of an ERP in carrying out business processes in a company
- Explain how 'best business practices' are incorporated in an ERP
- Execute an entire business process chain in the following areas
- Sales
- Procurement
- Production
- Accounting
- Strategize pricing, production and sales in a competitive commodity market
- Analyze sales data in an ERP to dynamically respond to changing market conditions to maximize profits
- Expedite production planning and control using tools provided in an ERP (e.g. MRP)
- Report on the reasons for the success (or failure) of their production and sales strategy.

3. BOOK AND MATERIALS:

- Required textbook:

    Essentials of Business Processes and Information Systems by Simha R. Magal, Jeffrey Word, Wiley Publisher, 2009.

- Other materials:

    - SAP R/3, Business Blueprint, 2nd Edition, by Thomas A. Curran & Andrew Ladd, Prentice Hall PTR, ©2000, ISBN: 0-13-085340-2
    - ERP Simulation Game: Participant's Manual (ebook)
    - Extensive lecture notes will be provided on Moodle system.

4. GRADING PROCEDURES:

        Assignments, Projects, Class attendance/participation: 50%

        Final Examination: 50%

5. COURSE OUTLINE:

Week	Topic
1, 2	1. Introduction • Course Overview • Discussion of database applications • Business function vs business process • Introduction to Enterprise Resource Planning (ERP) • Examples of ERP – SAP • Client/Server Technology, 2 Tier, 3 Tier, n Tier • Getting Started with SAP • Introduction to Case company **Homework 1: SAP Environment**
3, 4	2. Business processes – Sales Process • Sales and fulfillment cycle • Master Data and its role in ERP systems • Creating customer master data, material master data and pricing conditions • Implementing a Sales Cycle **Homework 2: Sales Cycle**

5, 6	3. Procurement Process • Forecasting raw material requirements using sales information, production requirements, sales forecast • Raw Material procurement • Vendors and pricing conditions • Payment **Homework 3: Purchasing Cycle**
7, 8	4. Production Process: Planning and control • Creating a production plan (from forecasting etc.) • MRP – Materials requirement planning • Independent and dependent materials requirements • Creating Production orders and schedules • Bill of Materials • Executing a Production process • Inventory and Goods movement • Routing and work centers **Homework 4: Production**
9, 10	5. Accounting • Understanding Generally accepted accounting principles GAAP • Financial Accounting basics – Balance sheet, Profit and Loss Statement • Posting financial transactions • Controlling – Cost centers and cost elements • Allocating Costs – Assessments and distributions **Homework 5: Accounting**
11	*Midterm Exam*
12	6. ERP Simulation Game • Goals of the ERP Simulation Game • Game description • How the market works, dynamic commodity demand and supply • Planning and forecasting for procurement and production
13	7. ERPSim – Quarters 1,2,3 • Introductory game • Analyzing data from the game • Producing Profit and Loss statements for the company • Strategy for Extended game

14	8. ERPSim – Quarters 1-4 • Extended ERPSim contest • Playing the simulation game in real time as the market fluctuates
15	9. ERPSim - Quarters 5-8 • ERPSim contest • Playing the simulation game in real time as the market fluctuates • Analysis of the entire game/market

6. ACADEMIC INTEGRITY POLICIES:

- Student may not use Vietnamese languague in class, or will be reduced 2% final marks

- Be punctual to come and leave the class.

- Maximum cancellation time per semester is 6 hours per class.

Instructor's Signature