

ITP454 - Enterprise Resource Planning, Design, and Implementation

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Class Web Page:
<http://www-rcf.usc.edu/~vawter/classes.html>
or
<http://blackboard.usc.edu/>

Course Description:

This course takes an in-depth look at the process and requirements necessary to implement an Enterprise Resource Planning System (ERP) for an organization. The Accelerated SAP method (as outlined by the ERP tool SAP) will be followed throughout the semester. Students will first be grouped into small project teams. Each team will be responsible for setting up a Windows Server system and monitoring that server system during the semester. The teams will then implement onto the servers an ERP system used for coordinating an organization's activities. The final tasks performed by the teams will be the transportation of data from a case company's legacy system into the newly implemented ERP system and the configuration of that ERP system to model the case company's Customer Order process.

Suggested Textbooks:

1. SAP R/3, Business Blueprint, 2nd Edition, by Thomas A. Curran & Andrew Ladd, Prentice Hall PTR, ©2000.
2. The SAP R/3 Handbook, by José Antonio Hernández, McGraw-Hill, ©1997.
3. Administering SAP R/3: The SD-Sales and Distribution Module, by Jonathan Blain and Bernard Dodd, Que, ©1999.
4. Accelerated SAP, Implementing at the Speed of Business, by Stewart S. Miller, McGraw-Hill, ©1998.

All other necessary material will be provided to you in class.

Class Schedule:

Week	Topic	Class Assignment	Lab Assignment
Week 1.	Course Overview	No reading assignment this week	No lab assignment this week.
Week 2.	Review: Customer order mgnt. process	Class notes on the COM process	Project #1 – The COM process. Due week 3.
Week 3.	ASAP Overview	Class notes on ASAP Handout: <i>R/3 Implementation Guide</i>	Project #2 – ASAP Overview. Due week 4.
Week 4.	Installation Concepts: Planning for an R/3 installation	Class notes: ERP Planning & Preparation.	Setup Server OS. Planning Worksheet due Sept. 25. Project #3 – R/3 4.7 Implementation Due week 6.

Week	Topic	Class Assignment	Lab Assignment
Week 5.	Installing the R/3 System	Continue with the <i>R/3 Implementation Guide</i> .	Continue w/ Project #3. Set up Oracle Db Load R/3 software
Week 6.	Post Implementation Procedures	Handout: <i>Installing the SAP GUI and Setting Profile Files</i>	Fine tune & check your R/3 System. Install GUI. Due week 7.
Week 7.	Exam 1 Continue with Post Installation activities: Upgrade Kernel and Load patches	Handout: <i>Installing Patches</i>	Upgrade kernel and add all patches to get R/3 system up to date
Week 8.	System Monitoring and Performance tools. Client Copies.	Class notes: System Monitoring Handouts: <i>List of Transactions for Daily Check and Performance Roadmap</i> Handouts: <i>SAPDBA and Client Copy</i>	Project #4 – System Monitoring. Due week 9. Project #5 – Install the pre configured client. Due week 10.
Week 9.	System Administration and Security Issues. Importing Best Practices.	Class notes: System Administration Handouts: <i>Pre-BP Install and J00, J01, & J30</i>	Continue w/ pre-configured client (Project #5). Project #6 – System Administration. Due week 10.
Week 10.	Configuration and the IMG	Class notes: Configuration Handouts: <i>Post BP Installation Configuration</i>	Begin configuring the new client based on the case company's requirements.
Week 11.	Exam 2 Configuration continued	Handout: <i>Testing the System Configuration for COM</i>	Finish the configuration. Test the system by completing a Customer Order.
Week 12.	Data Transfer Overview	Class notes on data transfer strategies.	Project #7 – Data Transfer Overview. Due week 13.
Week 13.	Performing the Data Transfer step	Handout: <i>Data Transfer Made Easy</i> .	Project #8 – Transferring Legacy Data to your new system. Due week 14
Week 14.	Fine tuning and final system check	No reading assignment Final system preparation	Final Preparation for COM. (Run Project #1)
Week 15.	Course Review	GO LIVE !	Implementation Notebook is due. Final system test to meet COM requirements.

Lab Policies

- The SAP GUI is installed on the computers in the ITP labs in OHE 540, KAP 107 and KAP 267. In the second week of class I will post the hours of these labs.
- Lab assistants are not familiar with SAP, nor with class assignments, so please don't expect them to be able to help answer questions with regard to the projects.
- **Note:** Before logging off a lab computer, you must ensure that you have either emailed or saved your work created during the lab session. Any work saved to the computer **will be erased** each evening and after restarting the computer. The School of Engineering is not responsible for any work lost.

- Lab Projects:**
- In the fourth week of class, you will be grouped into teams of four for setting up and implementing an R/3 system.
 - Your team will be assigned a machine that you will be responsible for during the semester. At the end of the semester, your team's system will be tested to verify its integrity and ability to complete a standard customer order, including creating a delivery document, an invoice, and collecting/recording payment for the order.
 - During the semester, projects will be assigned to provide you with practical information needed, and to guide you through the implementation process.
 - Some of the projects are to be worked on individually; other projects can be worked on as a team. Each project will explain how it is to be completed.
 - It is **your** responsibility (or in some cases, your team's responsibility) to submit the lab projects to the class blackboard assignment's page **before the beginning of lecture** on the dates indicated on the class schedule. **You will not have time to complete the project during class on the date the project is due!**
 - **Late projects will automatically have 50% of the possible points deducted prior to grading.** So, please turn in your projects on time!
 - **No projects will be accepted after 2 weeks** beyond the project's original due date or after the last day of the semester.

Implementation: Each team is responsible for putting together a notebook, the purpose of which would be to aid in the installation of an R/3 System upon a Windows - Oracle platform. At minimum, the notebook should contain:

Notebook

- Steps in setting up a Windows server including issues & decisions made.
- Steps in implementing the R/3 System including problems encountered and the appropriate release notes.
- Information on installing a pre-configured client.
- Notes on administering and monitoring the R/3 system.
- Notes on transferring data from a legacy system to your R/3 System.

Additional items that should be included in the notebook will be mentioned in class during the semester.

All students must read, understand, and abide by the University Student Conduct Code listed in SCampus, and available at:

<http://www.usc.edu/student-affairs/SJACS/nonacademicreview.html>

Excerpts taken from *SC Campus Student Guidebook, 04/05*:

§11.00 Behavior Violating University Standards and Appropriate Sanctions

“...individual work will be submitted [by the student], and [it’s the student’s] obligation both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own.”

§11.11 Plagiarism (Definition)

“The submission of material authored by another person but represented as the student’s own work, whether that material is paraphrased or copied in verbatim or near verbatim form.”

§11.14 Plagiarism (Definition continued)

“Obtaining for oneself, or providing for another person a solution to a homework project or other assignments, or a copy of an exam or exam key without the knowledge and expressed consent of the instructor.”

Any violation will be immediately reported to the Office of Student Judicial Affairs and Community Standards. The alleged violation will then be reviewed by the board. If the student is determined to be responsible for the violation, appropriate disciplinary action will be determined and then implemented by the University.