Information Systems
ISM 3011
Fall 2004
Unit 9A
Wednesday: Online Unit (no classes)

- Will be available on the course Web page by Wednesday morning 10:00 a.m.
  
  http://ruby.fgcu.edu/Courses/mhepp/

- Relevant for the quiz on Monday!
Assignment for Next Monday

• Read chapter 10 (p. 410 – 452)
• Self-assessment test (p. 452 – 453)
• Review key terms (p. 453)
• Prepare review questions 1, 4, 13, and 17.
Make Your Customers Part of Your Business

Dr. Martin Hepp
Transaction Processing & Enterprise Resource Planning Systems

Chapter 9
Batch versus On-Line Transaction Processing

(a) Batch Processing

(b) On-Line Transaction Processing

Dr. Martin Hepp
Integration of a Firm’s TPSs
mySAP Business Suite

mySAP PLM

mySAP SRM

mySAP ERP

mySAP SCM

Industry Best Practices

Adaptive Operations

Extensible with xApps

http://www.cio.com/research/erp/edit/erpbasics.html

Dr. Martin Hepp
Advantages of ERP

- Eliminates costly, inflexible legacy systems
- Improved technology infrastructure
- Improved work processes
- Increased data access for decision making
Disadvantages of ERP

- Expense & time
- Radical change
- Integrating with other systems
- One vendor risks
ERP, TPS, MIS: Fuzzy Borders

TPS / Order Processing

MIS / Sales Reports

Core ERP

Comprehensive ERP Suite: mySAP ERP etc.

Dr. Martin Hepp
Master Production Scheduling and Inventory Control

When and how much to order?

- Economic Order Quantity (EOQ)
- Reorder Point (ROP)
- Material Requirements Planning (MRP)
MRP – Material Requirements Planning

• Determines the amount of parts needed.
• Demand between products can be interrelated.
MRP – Input

- Master Production Schedule (MPS)
- Bill of Material (BOM): lists the component part numbers for each part
- Inventory status data
From pending orders to Material Requirements

• Input:
  – Pending orders
  – Inventory levels
  – Bills of Materials

• Example
MRPII – Manufacturing Resource Planning

- Includes requires workstation time, employees, and other resources.
- Capacity restrictions are included in the planning process.
Thank you!

The slides will be available on the internet at
http://ruby.fgcu.edu/courses/mhepp/
(-> CRN80097)