Course: ISM4113
Instructor: Selwyn Piramuthu & Nihat Kasap
Office: STZ 361 (392-8882/392-6298)
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Textbooks

   Referred to in this syllabus as (HGV).

   Referred to in this syllabus as (HPM).

   Referred to in this syllabus as (F).

Course Content

The general aim of this course is to examine the design and application of systems in business for routine data processing, management reporting, and decision support at various levels within the organization. The course is divided into two main parts: systems analysis and design, and database management. The processes and techniques used by system developers to analyze, design, and construct information systems will be presented in the first part of the course. The second part involves both the conceptual foundations and application of databases. MS-Access, a relational database management system, will be used to illustrate some of the concepts covered in the course.

Grade Structure

\[(\geq 90: \text{A} ; \geq 85: \text{B+} ; \geq 80: \text{B} ; \geq 75: \text{C+} ; \geq 70: \text{C} ; \geq 65: \text{D+} ; \geq 60: \text{D} ; < 60: \text{fail})\]

- 4 Exams 70% (15% for exams 1&3; 20% for exams 2&4)
- Term Project 20%
- MS-Access Tutorial Presentation 10%

The exams are not cumulative, and will be held in class during regular meeting periods on assigned days. MS-Access presentations are from (F). Details on the term project will be discussed during the second half of the semester.
Class Schedule (tentative)

1/6  Introduction and Overview: Chapter 1 (HGV)
1/8  Managing the Info. Systems Project: Chapter 3 (HGV)
1/13 Business Case/System Requirements Chapters 6-7 (HGV)
1/15 Process Modeling: Chapter 8 (HGV)
1/22 Logic Modeling: Chapter 9 (HGV)
1/27 Implementing the Info. System: Chapter 17 (HGV)
1/29 Exam-I
2/3  Introduction to Database Processing: Chapter 1 (HPM)
2/5  Entity-Relationship Model: Chapters 3-4 (HPM)
2/10 Entity-Relationship Model: Chapters 3-4 (HPM)
2/12 Relational Model and Normalization: Chapter 5 (HPM)
2/17 Relational Model and Normalization: Chapter 5 (HPM)
2/19 NO CLASS
2/24 MS-Access Tutorial Presentations (F)
2/26 Exam-II
3/3  Structured Query Language: Chapter 7 (HPM)
3/5  Structured Query Language: Chapter 7 (HPM)
3/17 Structured Query Language: Chapter 8 (HPM)
3/19 Structured Query Language: Chapter 8 (HPM)
3/24 Data Warehousing: Chapter 11 (HPM)
3/26 Data and Database Administration: Chapter 12 (HPM)
3/31 Distributed Databases: Chapter 13 (HPM)
4/2  Exam-III
4/7  Object-Oriented Data Modeling: Chapter 14 (HPM)
4/9  Object-Oriented Data Modeling: Chapter 14 (HPM)
4/14 In-class Group Project Presentations
4/16 In-class Group Project Presentations
4/21 Course Overview
4/23 Exam-IV

TERM PROJECTS DUE: 25 April 2003 by 12:00 Noon.