CSC/CPE 581 Computer Support Knowledge Management

1. CSC/CPE 581 Computer Support Knowledge Management

2. **credit units**: 4  **contact hours**: 6

3. **Course Coordinator**: Franz J. Kurfess


5. a. **Course Description**: Use methods and techniques that computer-based systems can provide to make the management of knowledge and information in digital form easier for the user. Emphasis on support for knowledge-intensive activities performed by users. 3 lectures, 1 laboratory.

   b. **Prerequisite**: CSC/CPE 481.

5. c. **Required/Elective/Selective Elective for CPE, CSC, EE, SE**

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6. a. **Course Goals/Outcomes**

   The student will be able to:
   
   - Understand the fundamental concepts in the study of knowledge and its creation, acquisition, use and management.
   - Appreciate the role and use of knowledge in organizations and institutions.
   - Be familiar with the basic concepts, methods, techniques, and tools for the support of knowledge management through computer-based systems.
   - Understand the components and functions of knowledge management systems and internetworking.
   - Be prepared for further study in knowledge generation and transfer and in the architecture and representation of knowledge.
   - Critically evaluate current trends in knowledge management and their manifestation in business and industry.

   b. **How Student Outcomes addressed**

   (“B” = Basic level, “I” = Intermediate level, “A” = Advanced level)
7. **Major Topics Covered: (number of lecture hours each)**
   - Introduction and Overview (3)
   - Knowledge Acquisition, Representation, and Manipulation (3)
   - Knowledge Organization (3)
   - Knowledge Retrieval (3)
   - Knowledge Presentation (3)
   - Knowledge Exchange (3)
   - Usage of Knowledge (3)
   - Knowledge Management Techniques (3)
   - Knowledge Management Tools (3)
   - Knowledge Management in Organizations (3)