

COP-6727 Advanced Database Systems

Catalog Description

Design, architecture and implementation aspects of DBMS, distributed databases, and advanced aspects of databases selected by the instructor. (3 credits.)

Prerequisites

SCIS Graduate Standing; an undergraduate database course.

Type

Advanced graduate course

Course Objectives

Become familiar with advanced modeling, architectural, implementation, and theoretical aspects of database management and information retrieval.

Learn how to read, present and analyze conference style paper

Identify and define a problem related to a predefined research topic

Write a conference style paper

Topics

Database design

Spatial Databases

Cloud Databases

Distributed Databases

Database Virtualization

Advanced semantic aspects of databases

Streaming data query and analysis

Medical, Health and Personal Databases

Integration and data analysis of heterogeneous databases

Web Search and Information Retrieval

XML

Semantic Web and Mashups

Web page analysis and summarization

Textbook

Research papers to be distributed

Last Update

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