



Information Systems Department

Course Syllabus

IS424 – Database Administration

Catalog Description: This course introduces to the students the practical part of Database Administration, Capacity Planning, Database Management System (DBMS) Architecture, Performance Tuning, Backup, Recovery and Disaster Planning, Archiving, Reorganization and Defragmentation.

Credit Hours: 3 Credit hours: 0 Lectures per week 6 Labs. per week 0 Recitation per week

Prerequisites: IS321, IS336

Course Learning Outcomes:

1. Outline the key concepts related to database administration
2. Describe the issues related to disaster and recovery planning
3. Plan mechanism for database administration
4. Evaluate system performance
5. Work effectively in groups and exercise leadership when appropriate
6. Present a topic in a compelling manner.

Major Topics:

- Introduction to Database Administration
- Capacity Planning
- Database Management System (DBMS) Architecture
- Performance Tuning
- Backup, Recovery and Disaster Planning
- Archiving, Reorganization and Defragmentation.
- Project Discussions



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Text Books: Database Administration: The Complete Guide to Practices and Procedures 1st Edition, by Craig S. Mullins (Author), ISBN-13: 978-0201741292, ISBN-10: 0201741296.

Grading: ☉ The grading scale for this course is:

- 95 - 100 A+ Passing
- 90 - 94 A Passing
- 85 - 89 B+ Passing
- 80 - 84 B Passing
- 75 - 79 C+ Passing
- 70 - 74 C Passing
- 65 - 69 D+ Passing
- 60 - 64 D Passing
- 0 - 59 F Failing

☉ Final grades will be determined based on the following components:

- . 60% Semester Work
- . 40% Final Exam

☉ Students may not do any additional work for extra credit nor resubmit any graded activity to raise a final grade.

☉ Late submissions will not be accepted for any graded activity for any reason.

☉ Students have one week to request the re-grading of any semester work.

Attendance Policy: Students should attend 80% of the overall course hours taught in the semester as per the University regulations.

If a student fails to achieve this portion, he/she shall not be allowed to appear in the final exam and shall be awarded “DN” grade and repeat the course.

Cheating and Plagiarism Policy: The instructor will use several manual and automated means to detect cheating and/or plagiarism in any work submitted by students for this course.

When a student is suspected of cheating or plagiarism, the instructor raises the issue to the disciplinary committee.



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Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will be used as the primary mechanism to disseminate course information, including announcements, lecture slides, assignments, and grades.

Communication with the instructor on issues relating to the individual student should be conducted using CIS email, via telephone, or in person.