Information Systems Department

Course Syllabus

IS621 - IT Infrastructure

Catalog Description:	The subject of IT infrastructure describes all hardware and software components needed to run IT applications and infrastructure architecture describes the overall design of that infrastructure. This subject explains how infrastructure components work on an architectural level. It does not provide in-depth details needed by technicians, but describes the main architectural building blocks and concepts. IT infrastructures are complex by nature and provide non-functional qualities like performance, availability, and security to applications. This subject describes each infrastructure component and their specific performance, availability, and security concepts.
Credit Hours:	**3 Credit hours:** 3 Lectures per week 0 Labs. per week 0 Recitation per week
Prerequisites:	None

Course Learning Outcomes:

1. Understanding of managerial issues and technologies related to interoperability: issues and technologies
2. Provide an appreciation of the choice between open standards and proprietary solutions
3. Understand the product strategies of major hardware, software, and telecommunications vendors
4. Understand how national and global standards organizations influence architectural standards, regulations, and future developments
5. Design, implement and manage security and disaster recovery plans and business continuity from an overall organizational perspective
6. Understand the integration of enterprise systems with inter-organizational partners such as suppliers, government, etc.

Major Topics:

Topic 1: Introduction to IT Infrastructure
Topic 2: Service Delivery Process
Topic 3: Service Support Management
Topic 4: Availability Concepts
Topic 5: Performance
Topic 6: IT Security
Topic 7: Datacenters
Topic 8: Storage
Topic 09: ITIL

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Text Books: It Infrastructure Architecture: Infrastructure Building Blocks and Concepts, By Sjaak Laan (2011)

IT Infrastructure and Management by Manoj Kumar Choubey (2012). Pearson Education. ISBN: 9788131767214

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
0 - 69	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.

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

Communications: Registered students will be given access to a section of the Learning Management System (LMS) for this course. LMS will 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.