CENG497 Introduction to Mainframe Architectures and Computing

Syllabus

Instructor
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Assistant
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Schedule
Thursday, 14:40-17:30, A101

Objectives
This course will provide students with state of the art knowledge on mainframe computing, mainframe configuration and design, factors affecting large corporate resource and computing requirements. Students will learn system integration, management of mainframe databases, legacy applications and data, transaction/batch processing, and virtualization. This course will enable students to apply and complement their hardware and operating system knowledge on the area of mainframe systems.

References (Available at redbooks.ibm.com)
Introduction to the New Mainframe: Large-Scale Commercial Computing
Introduction to the New Mainframe: z/OS Basics
zEnterprise System Technical Introduction
zEnterprise System Technical Guide
ABCs of z/OS System Programming Volumes 1-13
Mainframe Strengths and Values

Outline (Tentative)
Introduction to Mainframe Hardware
Introduction to Mainframe Operating System
Lab Sessions: Utility Programs, JES/Application Concepts, PLs, Compilation and Linkediting
Mainframe Operating System Facilities: Storage Management, IO Management, Data Management etc.
DB2 for z/OS

Conduct
Lectures, Seminars, Hands-on practice

Grading (Tentative)
Attendance & Participation .. 04%
Midterm ......................... 30% (on April 13, 2017, to be fixed and announced by the department)
3 x Assignments ................ 33%
Final ............................. 33%

Policy
In order to be allowed to take the final exam, students MUST score weighted total of at least 14 points from the attendance & participation, midterm exam and first two assignments. Otherwise, a student will directly get the grade NA.

The makeup policy applies if and only if you have an officially documented excuse. You can take the makeup for the final examination, but the final itself will count as a makeup for the others. In both case, you should let the instructor know as soon as possible and provide the official documentation.

The university regulations will be applied in case of cheating on attendance, assignments, exams, etc.