



Information Systems Department

Course Syllabus

IS713 – Implications of Digitization

Catalog Description: This course serves as a capstone course integrating technological and managerial aspects of information technology. We will take the culmination of your previous learning of technological and managerial subjects and apply it to real-world scenarios. Each section will consider the information and communication technologies that play multiple roles within an organizational context through two perspectives:

- From a technological perspective, these define the information and communication infrastructures of the firm and they enable new ways to digitize business processes.
- From a managerial perspective, these facilitate new coordination and communication within and across entities, enable new organizational forms, change the information environment underlying the business, and permit new incentive structures.

Successful efforts at digitization must keep both technological and managerial perspectives in mind. Using a collection of cases and current industry scenarios, this course will study how the deployment of information technology changes interactions and processes within organizations, across organizations, within industries, and across society.

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

Prerequisites:

**Course Learning
Outcomes:**

1. Analyze and interpret transformations of IT in the four areas of competitive advantage, org structure, industry structure, and institutional policy.
2. Analyze and interpret methods of productivity growth through modern interpretations of digitized input and output drivers.
3. Distinguish between and systematically assessing components of change through sustaining and disruptive technologies with proper management of demand and supply-side drivers.
4. Identify and examine key technological challenges and rewards from systems innovations, first-mover advantages and disadvantages, and the potential disruptions or opportunities to culture, cross-industry collaborations, design thinking, and trust.



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Major Topics:

- Assuming the Role of the Systems Analyst
- Hardware
- Software
- Data Resource Management
- Telecommunications and Networks
- Electronic Commerce Systems
- Decision Support Systems
- Developing Business/IT Solutions
- Security and Ethical Challenges
- Project Discussions

Text Books:

Introduction to Information Systems - Loose Leaf 16th Edition by George Marakas (Author), James O'Brien (Author) Publisher: McGraw-Hill Education; 16th edition (2012) ISBN10: 0073376884 | ISBN13: 9780073376882



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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.

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

Attendance Policy:

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.

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

Cheating and Plagiarism Policy:

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.