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Spring 2024

MIS 645-854: Information Technology and Competitive Advantage

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Course Title**:** *Information Technology & Competitive Advantage*	Semester**: Spring 20243** **January 16 to April 29, 2024**
Course Number: *MIS-645-852* *MIS-645-854* **With Canvas**	Instructor**:** *Jerry Fjermestad, Ph.D.* *Professor, MTSM*
	Prerequisites**:** *Graduate Standing*
Faculty Information	
Jerry Fjermestad (Dr.J)	Office: *Central Avenue Building, CAB 3031*
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Course Description

This course introduces the field of Information Systems, the study of how people, processes, structure, and technology are used to make an organization more effective. It examines the major areas in the field, analyzing the major issues, trends, and problems. It surveys the role of information systems in organizations and how these systems support organizational objectives and organizational structure, as well as sustain competitive advantages. It discusses basic concepts including the system's point of view, the organization of a system, the nature of information and information flows, as well as how people process information, and related cognitive concepts. It also examines various types of information system applications including big data, cloud computing, e-commerce, supply chain, decision support, and enterprise systems.

Required Course Materials

Texrbook: Piccoli, G. and Pignim F. Information Systems for Managers in the Digital Age Without Cases, Edition 5.0, Prospect Press, 2022.
etext- ISBN: 978-1-943153-85-5
Printed paperback- ISBN: 978-1-943153-86-2

- Notes & Articles*: Included in the Canvas Forums*

Course work will involve:

A- Discussions (analysis, evaluations, and integration) based on published articles.
B- Quizzes based on the textbook readings.
C- Mini-case questions from the textbook chapters
D- SPSS and Tableaus analyzes.

Learning Outcomes. Blooms Taxonomy

The course intends to build a wide range of analytical, communication, interpersonal, leadership, and technology skills. Students will be able to:

- Explain the technology, people and organizational components of information technology / information systems (IT/IS) from the perspective of business users and managers (applying information in a new way).
- Evaluate how organizations can use IT/IS for competitive advantage.
- Explain how enterprise-wide information systems support business activities and enable a comprehensive understanding of company data.
- Understand information systems development and management issues.
- Develop the ethical concerns associated with information privacy, accuracy, intellectual property rights, and accessibility.
- Recognize when information is needed, locate it efficiently, evaluate its relevance, authoritativeness, and validity, use it to build new knowledge, and communicate that knowledge.

Expected Learning Outcomes
In addition to content specific course objectives, the course intends to help students develop a wide range of analytical, communication, interpersonal, and technology skills, namely:

Competencies	Outcome
LG 1 Develop an Understanding of Business Concepts and the Technical Knowledge to Solve Business Problems	LO 1.1 Our students will evaluate and integrate the knowledge and application of business information system fundamentals.
LG2 Develop the ability to analyze the impact of technology in a business environment.	LO 2 Our students will apply and analyze business problems using current technology.
	LO2.2 Our students will be able to evaluate the different alternatives in the competitive business environment.
	LO 2.3 Our students will be able to create new ways to solve business problems using information technology.

Assignments:

Course Website
> Please go to CANVAS. The Canvas site is where most course materials are posted. Make sure you have an NJIT UCID and password so that you can access Canvas. I will use Canvas to post announcements and supplemental materials throughout the semester. **So, please be sure to check the site (canvas.njit.edu) frequently. Please contact helpdesk (973-596-2900) for problems associated with Canvas.**

Course Deliverables/ Final Grade Components
Your grade for this course will be based on the following components:

Discussions Start January16, 2024.
The discussions are in place of essay question exams. I expect you to show me what you have read (required articles, other articles, business trade articles, video from the

course and other material. Please make sure you cite the sources and integrate them with the assignment. The best scores will get material from the eNJIT ibrary.
Show me that you are reading the material and extra material. Add value. The initial is worth 2 point and each of the required 3 comments is worth 1 point.

Planned on-line virtual discussions (individual) – 4@ 5% **Due on-line**

Discussion	Start	Weeks	Initial Due	Weeks	Final 3 Due*
D1 5%	1/16	3	2/5 9AM	1	2/12 9AM
D2 5%	2/12	2	2/26 9AM	1	3/4 9AM
D3 5%	3/4	2	3/25 9AM	1	4/1 9AM
D4 5%	4/1	2	4/15 9AM	1	4/22 9AM

*If you do the required 3 comments on the last 2 days you receive ZERO credit. Space your comments out. Follow all the guidelines on the assignments. Additional comments are always welcome. Feedback will be provided through the scores and comments on the scores.

Assignments:

1) Each of the four (4) **Discussions** is worth 5 points for a total of 20 points. Comments must be posted within two weeks of the initial posting. There must be 4 comments for each discussion.   An initial which is worth 2 points and 3 comments on others initial is worth 1 point each for a total of 5 points. Analyze and evaluate.

2) Chapter mini-cases: There are 5-chapter mini-cases.   Answer the questions with a brief paragraph. Add value. Each chapter mini-case is worth 2 points. Answer within the chapter week, otherwise no credit is earned. Total 20 points. Analyze, evaluate, and create alternatives. Chapter 1 to 5. Total 10 points.

3) SPSS assignment 5 points.

4) Tableau assignment 5 points.

5) Four quizzes Total = 60 points
   Q1: Ch1, Ch2, Ch3 (20 points)
   Q2: Ch4, Ch5, Ch6 (10 points)
   Q3: Ch 7, Ch8, Ch9 (10 points)
   Q4: Ch10, Ch11, Ch 12, Ch 13 (20 points). Grand total = 100 points.

Grades reflect the level of understanding of course content. Therefore, to achieve the grade of A or B in this class expect to:
   - High quality and on time.
   - Be prepared. This means actively participating in discussions, exercises, and activities to further understanding.
   - Turn in all course deliverables in a timely and professional manner.
With less preparation and participation expect the grade of C or lower.

I have had students be very casual in taking a class for the first part of a term. Then, as the class nears the end, the student realizes a bad grade may be in the future and asks for an extra-credit

opportunity or extensions to due dates. This is usually done with a **sad face, a soft voice, and a remorseful heart**. Please know now that such opportunities are not fair to the other students. So, the grading system established in this syllabus is final and no other opportunities exist. This means that each student should take this class seriously from the first week.

Final course grades will be based on the following scale (there will be NO curve):
Grading Scale or etra credit.

	A	**B+**	**B**	**C+**	**C**	**F**
Percent	90%	85%	802	75%	70%	<60%

Late Assignments
Late assignments will not be accepted for grading unless there is a severe illness or an emergency. In these cases, legitimate documentation of the emergency must be presented and approved by the office of the Dean of Students before extensions will be granted.

Academic Integrity

Learning is both an individual and a cooperative experience. Asking for and giving help freely in appropriate settings helps you learn. However, you should present only YOUR work as your own. University rules and standards define and prohibit "academic misconduct" by all members of the academic community including students. You are asked and expected to be familiar with these standards and abide by them.

Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at: *http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf*.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. ***Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.*** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at *dos@njit.edu*.

Accommodations

Educational access is the provision of classroom accommodations, auxiliary aids and services to ensure equal educational opportunities for all students regardless of their disability. If you are in need of accommodations due to a disability, please contact Scott Janz (oars@njit.edu), Associate Director of the Office of Accessibility Resources & Services (OARS), Kupfrian Hall 201, to discuss your specific needs. A Letter of Accommodation Eligibility from the OARS authorizing your accommodations will be required. Accommodations need to be requested in advance and will not be granted retroactively.

Classroom Policies

I will submit your assignments to Turnitin to check for plagiarism.

Additional Information and Resources

Accessibility:
This course is offered through an accessible learning management system. For more information, please refer to Canvas's [Accessibility Statement](#).

Requesting Accommodations:
The Office of Accessibility Resources and Services works in partnership with administrators, faculty, and staff to provide reasonable accommodations and support services for students with disabilities who have provided their office with medical documentation to receive services.

If you are in need of accommodations due to a disability, please contact the [Office of Accessibility Resources and Services](#) to discuss your specific needs.

Resources for NJIT Online Students
NJIT is committed to student excellence. To ensure your success in this course and your program, the university offers a range of academic support centers and services. To learn more, please review these [Resources for NJIT Online Students](#), which include information related to technical support.

Final Comments
I reserve the right to change any aspect of this syllabus or the course schedule at any time, as the need arises. Students registered for this course assume full responsibility for reading and understanding the course policies as stated above.

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Spring 2024 Schedule

Date	Class type	Assignments Due	Topic
Jan 16	Online		Intro/C1
Jan 22	Online		C1
Jan 29	Online		C2
Feb 5	Online	D 1 Initial	C3
Feb 12	Online	D 1 Final	C4
Feb 19	Online	Q1 (2/23- 12/25)	C5
Feb 26	Online	D 2 Initial	C6
Mar 4	Online	D 2 Final	C7 SPSS
Mar 11	Spring Break		
Mar 18	Online	Q2 (3/22- 3/24)	C8
Mar 25		D3 Initial	C9
Apr 1	Online	D3 Final SPSS assignment	C10 Tableau
Apr 8	Online	Q3 (4/12 – 4/14	C11
Apr 15	Online	D 4 Initial	C12
Apr 22	Online	D 4 Final Tableau assignment	C13
Apr 29 Last Class	Online	Q4 (5/3 – 5/6)	
May 6			
May 11	Grades due		

D is Discussion

Q is Quiz