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IS 677-101: Information Systems Principles

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New Jersey Institute of Technology
School of Management

Course Title: *Information Systems Principles*	*Richard Egan, PhD,* *egan@njit.edu* *973 596 – DoNotCall* *Web.njit.edu/~egan*
Course Number: **IS677**	Prerequisites/Required Background: **Graduate Standing**
Course Website: www.moodle.njit.edu	Office hours are listed on my website or by appointment.
Catalog Information: http://catalog.njit.edu/graduate/computing-sciences/#coursestext	

Course Description

This course introduces the field of Information Systems; the study of how people and organizations should use information technologies effectively. We examine the major areas in the field, analyzing the major issues, trends and problems. We survey the role of information systems in organizations and how these systems support organizational objectives and organizational structure, as well as providing competitive business advantages. We discuss basic concepts such as the systems 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. We also examine various types of information system applications such as big data, cloud computing, e-commerce, supply chain, decision support, and enterprise systems.

Course work will involve:

   A- Mini Cases with summaries and questions
   B- Discussions (analysis, evaluations and integration) based on published articles both on-line and in class
   C- Quizzes based on the textbook readings. Text, Readings, and Collaborative Conferencing System

Required Text and Materials
Pearlson, K.E., Saunders, C.S. and Galletta, D.F. Managing and Using Information Systems: A Strategic Approach, Wiley, 6th Edition, 2016, ISBN: 978-1-119-24428-8. **Directly from Wiley:**   www.wiley.com

- Notes & Articles*: Included in the Moodle Forums*
- *Bloom's Taxonomy and other material-*

Course Objectives

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.
- Understand 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.
- Discuss 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.

Course Methods

Lectures, in-class and **required** on-line discussions; text readings with class discussions, and written online homework assignments with group online virtual discussions, and IS Issues including in-class case discussions.

Honor Code

Any evidence of cheating in any form including plagiarism and cutting & pasting from the Internet, will be dealt with according to the honor code of NJIT (course failure and suspension or expulsion). Please note: There will be no warnings or chances with regard to cheating. Any discovered case of cheating will be immediately passed to the Dean of Students for further investigation.

This is your warning now. Cheating is not worth it - you may not only fail this course, but also be suspended from NJIT. The full text of the NJIT Honor Code is available for your review at http://www.njit.edu/academics/honorcode.php.

Regarding Participation

Class members come to IS-677 with a myriad of backgrounds, experiences and opinions. Some of you will have no IT/IS experience at all! Everyone will benefit from everyone else's experiences and knowledge. We are structuring the class to encourage discussion, both during class and on-line in-between classes. **During both types of discussions, we expect everyone to join in the discussion.**

Attendance, Absence and Lateness Policy

You are expected to attend every class. If you will not attend a class if is courteous for you to notify me that you will not be attending, but it does not excuse the absence. The following guidelines apply:

If you are absent **four (4) times** you will have your grade <u>lowered</u> by **ONE** Letter grade.
Six (6) times and your grade is <u>lowered</u> by **TWO** letter Grades.
Nine (9) times you will be given an "**F**".

Medical Excuses need to be reported to the Dean of Students and they will decide if the absence is to be excused or not.

Learning Goals and Learning Outcomes

Learning Goal 4: Management of Technology

Learning Objective 4.1 Students have the ability to analyze the impact of technology in a business environment.

Measurement: Benefits, Implementation, Justification of the technology, Critical assessment (Compare and contrast the technology with other similar technologies) from a business perspective.

Assignments

All assignments are due at 9:00AM on the due date. **Late assignments receive zero (0) credit**. **Late team assignments receive zero (0) credit for each team member.** All assignments are to be posted in the appropriate forum on Moodle at http://Moodle.njit.edu**.**

1) Planned on-line virtual discussions (individual)
   One (D3) worth 0%. Total = 30%
2) Mini-Case discussions; Total = 30%
3) **Three quizzes @ 20% each. Total = 40%**
   Q1: Ch0, Ch1, Ch2, Ch3, Ch4
   Q2 : Ch5, Ch6, Ch7, Ch8, Ch13
   Q3: Ch9, Ch10, Ch11, Ch12

On-line Assignments and Virtual Class Discussions-Quiz Essays:

- The purpose of this assignment is to learn from the experiences and knowledge of each other. There will be ten (3 discussions and 7 mini-cases) on-line assignments on various management information systems Topics.
- There are two parts to the **required** on-line discussion. The initial part is to post a summary and address the questions posted in the discussion forum worth a maximum 6 points. The Final 4 comments are for you, the student

to discuss other student's initial comment or subsequent comments, worth a maximum of 3 points. D3 is worth is not graded.

- The mini-cases also have 2 parts. The initial is to address the questions posted in the case. This is worth a maximum of 3 points. The initial comment must be posted before the class that it will be discussed in. The final 2 comments are for you, the student to discuss other student's initial comment or subsequent comments, worth a maximum of 2 points each.
- Comments such as "I agree" or "I disagree" do not count. You are expected to integrate the course material in each comment. Add value!! **Each comment should be at least 50 words**. No more than 2 comments on a single day. If any of the required 4 comments are posted on the last two days of the open assignment you will not receive credit. Additional comments are always welcome an can add value to your score..

Discussions Start the first week of class. Start as soon as you can!
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 and AIS Library.
Show me that you are reading the material and extra material.

See Moodle for due dates of the discussion and mini-cases

If you do the required 4 comments on the last day you receive ZERO credit. Space your comments out. Follow all of the guidelines on the assignments. Additional comments are always welcome. Do not post 4 comments on the same day, unless you post more on other days. This can result in credit for only 2 comments.

Evaluation and Grading

The following scale will be used to determine your grade for the class: A (93 - 100%); B+ (88 - 92); B (80 - 87%); C+ (75 - 79%); C (60 - 74%); F (Below 60%). There are no incompletes. Assignments that are not completed on time receive zero (0) credit. Final grades are based on total scores, on-line and in-class participation and your attendance.

NJIT and the School of Management expect our students to be problem solvers, critical thinkers and be knowledgeable on the academic literature. Critical thinking and evaluation are very important are required in D1, D2 and in the Mini-Cases.

Required Reading

These articles are posted in the "Everyone should read these articles" forum and in the Weekly Forums and are required. They are in MISQ format**.**
http://www.misq.org/manuscript-guidelines

1. Carr, N.G. 2003, "IT doesn't matter, **Harvard Business Review**. May, pp. 41-49.
2. Markus, M. L.1983. "Power, Politics, and MIS Implementation," *CACM*, (26: 6), pp. 430-444
3. Nielsen, J. 1992. "The Usability Engineering Life Cycle," *IEEE Computer*, March, pp. 12-22.
4. Zwass, V. 2003. "Electronic commerce and organizational innovation: aspects and opportunities," **International Journal of Electronic Commerce**, (7:3), pp. 7-37.
5. Romano, N.C. and Fjermestad, J.2007. "Privacy and security in the age of electronic customer relationship management," **International Journal of Information Security and privacy**, (1:1), pp. 85-106.
6. Fjermestad, J. and Romano, N.C. 2003. "Electronic Customer Relationship Management Revisiting the General Theories of Usability and Resistance: An Integrative Implementation Framework," **Business Process Management Journal**, (9:5), pp. 572-591.