New Jersey Institute of Technology
School of Management

Course Title**: *Information Systems Principles***	Semester**: Fall 2016**
Course Number: ***IS 677***	Instructor**: *Sathish Rajamani***
	Prerequisites**: *Graduate Standing***
Faculty Information	
Sathish Rajamani	Office: ***Adjunct faculty room***
Office Hours: Based on prior appointment	Telephone: ***2019178456 (only text)***
Email: Sathish.rajamani@njit.edu	***Notes and Articles: in http://Moodle.njit.edu***

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
C- Quizzes based on the textbook readings. Text, Readings

Text Book: 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.

- Notes & Articles*: Included in the Moodle Forums. Further articles will be included on a regular basis.*

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

IS-677 lectures, discussions; text readings with class discussions, and written online homework assignments with group online virtual discussions, team case studies and IS Issues including distance learning presentations and 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.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.

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 2355 hours EST on the due date. Late assignments receive zero (0) credit.

1) Planned **on-line DISCUSSIONS** – Total Weightage 25%
   D1: Due on Sept 25
   D2: Due on Oct 25
2) **Mini-Case discussions** 4@ 5% each; Total = 20%
   Mini-Case 1: Due on Sept 20
   Mini-Case 2: Due on Oct 11
   Mini-Case 3: Due on Nov 1
   Mini-Case 4: Due on Nov 23
3) **Three quizzes** - Total = 55%
   Q1: Ch0, Ch1, Ch2, Ch3, Ch4 (Oct 4 to Oct 9) (20%)
   Q2: Ch5, Ch6, Ch7, Ch8, Ch13 (Nov 15 to Nov 20) (20%)
   Q3: Ch9, Ch10, Ch11, Ch12 (Dec 1 to Dec 7) (15%)

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 six (2 discussions and 4 mini-cases) on-line assignments on various management information systems Topics.
- There are two parts to the on-line discussion. The initial part is to post a summary and address the questions posted in the discussion forum worth 6 points. The Final 4 comments are for you, the student to discuss other student's initial comment or subsequent comments, worth 4 points.
- The mini-cases also have 2 parts. The initial is to address the questions posted in the case. This is worth 3 points. The final 2 comments are for you, the student to discuss other student's initial comment or subsequent comments, worth 2 points
- **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. <u>Additional comments are always welcome</u>**

Evaluation and Grading

The following scale will be used to determine your grade for the class: A (93 - 100%); B+ (88 - 92); B (78 - 87%); C+ (75 - 77%); 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 and on-line and in class participation.

NJIT 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

Several articles are posted regularly in the moodle. Everyone should read these articles prior to attending the class and should show evidence of the same in the Online discussions. The articles will be updated on a regular basis.

IS 677 Class Schedule
Fall 2016

Date	Topic
Sept 9	Introduction & Ch1: Information Systems Triangle
Sept 16	Ch2: Strategic Use of Information Resources
Sept 23	Ch3: Organization Strategy & Information Systems
Sept 30	Ch4: Digital Systems and Design of Work
Oct 7	Ch5: Information Systems and Business Transformation
Oct 14	Ch6: Architecture and Infrastructure (self-study module) Ch7: Security
Oct 21	Ch13: Privacy & Ethical Considerations
Oct 28	Ch8: The Business of Information Technology
Nov 4	Ch9: Governance of Information Systems Org
Nov 11	Ch10: Information systems Sourcing
Nov 18	Ch11: Managing IT projects
Nov 23 (Wed)	Ch12: Business Intelligence, Knowledge Management & Analytics
Dec 2	Discussions, Feedback
Dec 9	Reserve