
NEW JERSEY INSTITUTE OF TECHNOLOGY

School of Management

Instructor	Chaudhuri, Ajit K	Email	chaudhur@njit.edu
Office Hours	½ Hr. Before /after class, by appointment	<i>The course website</i>	moodle.njit.edu .

Course Materials

There is one recommended textbook for the course that students need to acquire. Additional course materials will be made available on the course website. The textbook information is as follows:

<i>Author(s)</i>	Paige Baltzan
<i>Title</i>	Business Driven Information Systems 5th Ed, with Connect
<i>Edition</i>	5 th Ed
<i>Publisher</i>	Mc Grow Hill
<i>Copyright year</i>	2015
<i>ISBN</i>	9781259675485
<i>Other Source</i>	
<i>Title</i>	'Business Driven Technology 6e' by Paige Baltzan,
<i>Author</i>	Paige Baltzan

**** Please see the last page for more details about book and the Connect tool; and how to register for this**

Teaching Methods:

This class will be taught through a combination of lectures (**your main Reference**), your textbook, student discussion, presentations, case studies, assignments and most importantly **Connect** and its **plug-ins to develop your skill in MS Excel, Access, Visio and Project**,

Connect can help students identify their weakness; and provide learning resources to assist improvement.

Course Description

This course covers the benefits IS/IT can provide to individual workers, workgroups, and to entire organizations. The approach in the course is a “business first, technology second” perspective that focuses on how IS/IT can help meeting business needs. Upon completion of the course students should:

1. Be able to identify what are the common business processes and dynamics of business operation, decisions and strategies; and IS/IT applications to common business problems and opportunities
2. Have knowledge of IS/IT-enabled competitive advantages and sustainability in the modern business world
3. Grasp the essentials of major components of IS/IT and how does it supports business processes
4. Able to participate in role of design and implementation of IS/IT for Business applications/solution

Course Objectives

The objectives for this course reflect it being an introductory course with an emphasis on providing a foundation upon which in depth knowledge of the many discussed topics can be built. Contributing to the development of students' analytical, communication skills and ability to work in groups are also course objectives. The importance of ethical behavior and the challenges presented by increasing globalization are also addressed.

Upon completion of this course, students should be able to:

- ✓ Identify and understand key information technologies used in modern organizations;
- ✓ Understand the strategic role of information systems in modern organizations;
- ✓ Understand how IS/IT are used in organizations to support business functions and managerial decisions;
- ✓ Understand the interrelationship among information technology, organization and management;
- ✓ Discuss the ethical and social implications of information technologies and systems.
- ✓ Understand and use basic/advance level of MS Excel, Access, Visio and Project which are frequently used in the business world, particularly, in the elementary levels.

Major Course Topics:

- Management Information Systems: - Competing environment and its advantages/disadvantages, Challenges, Five forces model, three generic strategies, Value chain analysis.
- Decision and Process of value driven Business: - Three levels of MIS for business decisions, Decision support systems, Managing business process and role of MIS to improve processes and decisions;
- eBusiness and value analysis:- The catalysts for ebusiness, the four business models; ebusiness tools, ebusiness challenges and advantages, Collaboration, and next upcoming generation
- Ethics and Security: - Information Ethics, Developing policies and protecting intellectual assets.
- IT Infrastructure :- Supporting operations, using Emerging Technologies, Sustain in the market
- Foundation of Business Intelligence:-Relational database for storing data and its advantages; Business benefits of Data Warehouse (DW), Decision with Business Intelligence (BI)
- Business value of networked world: - Benefits and Challenges, Business value of wireless/Mobile mode of worldwide business and connectivity, Wireless networks business applications.
- Enterprise Business Applications: - Overview of Enterprise Resource Planning (ERP), Supply Chain Management, Customer Relationship Management, and Organizational integration.
- System Development and Project Management:- The system Development Life Cycle (SDLC), Different Methodologies (Agile, RAD, RUP, SCRUM), Service Oriented Architecture (SoA)
- Project Management:- Project Planning Diagram, Project Management Tools (MS Project Management)
- ***In this course, advance level of Excel (Conditional functions, sort, filter, pivot, what-if decision tools, etc.); MS Access (basic level of table, forms, Queries and Reports), Basic Visio Flowcharts; and use of MS Project tools.***
- *(Above schedule subject to change as per the required class work).*

Assessment Strategy:

Long Semester Project - Presentation (Team)	
1. BUSINESS CASE PRESENTATION, Due date will be announced in Moodle and/or class. Distribution of points in the presentation will be in the Moodle, later.	15 points
2. TECHNICAL PROJECT – Database Project using MS ACCESS	10 Points
Assignments: Quiz/Short-test (10 Points) + Technical Assignments (10)	20 Points
* Comprehensive Written Exam (Test1 10, Mid Term– 15, Final – 25) => Total	50 points *
Attendance, Class Participation & Professionalism	5 points

* **Method of Quiz/Exam Evaluation** - Combination of T-F/multiple choice questions/Short-Medium-text essay.

Description - Final exam will consist of questions relevant to the material covered in each lecture notes and mainly the assignment at the end of the lecture notes.

The number of students in each team depending on the class size, will be three or more.

Your class Presentations consists of two components – Group and Individual performance. Please refer to the project instructions document which will be posted online course system.

Class Participation & Professionalism: Students should exhibit active participation and professionalism, e.g. showing active participation, and timely completion of all class activities including class discussions, showing respect to others, supporting the professor in creating an effective learning environment and maintaining academic standards, and complying with all university and class policies. Considering the intensiveness of our course schedule, students are expected to attend all the lectures.

Grading Scale

A	90 up
B+	85 up to 89
B	80 up to 84
C+	75 up to 79
C	70 up to 74
D	60 up to 69
F	< 60

Students will be assigned to groups up to 2-4 members to work on a group project. The project involves creating a report and presentation on an MIS topic to be chosen from a list of suggested topics. Details as to these projects will be available on the course website (Moodle) during the course period.

Students' grades on the project will be calculated as follows:

Business Project	100% = 15 of total 100
Group + Individual presentation	70+10
Individual (Question after presentation from the case presented).	20

Late Submissions

Each day will be penalized by 10%, whether the assignments are in Moodle/Connect, Hardcopy/Softcopy.

Work will not be accepted after 3 days of due date.

Exception: Project paper will not be accepted after the Final Exam date.

Attendance and Class Participation

Class attendance and participation are important for student learning. Starting with the second week of class, attendance and participation will be accounted in students' course grade.

Excused or unexcused absences mean that course material is being missed. Students missing classes are responsible to make up the missed material. And, prior information on absence does not qualify students to have attendance. Of course, medical or other exceptional (with documents/proof) cases will be considered.

Attendance: Students need to sign attendance sheet, or attendance will be called anytime (beginning, middle or end of the class)

Course Policies

Computer Requirement and Access to the Internet

NJIT requires all students to have access to a computer at their place of residence. Details as to this requirement may be found on the college's website on the page describing NJIT's [Undergraduate Student Computer Requirement](#).

Access to the Internet is required for this course. NJIT provides on campus access to the Internet to all students. Details as how to access the Internet as well as other resources at NJIT may be found in the [Student Quick Start Guide](#).

Deadlines/Late Work/Make-ups

Specific policies concerning the acceptance of late work and make-ups are discussed in the sections covering course requirements. In general, work will be accepted late without penalty or allowed to be made-up **only if there are extraordinary circumstances beyond students' control.**

Students may need to contact the Dean of Students' office and have it determine that the reasons given for not doing the work on time are valid.

Athletic/Games/Sports team member must submit request from dean for not being able to take test/quiz, before the quiz/test date. This request is not acceptable for Mid-term and Final Test.

Extraordinary Circumstances

The predictable demands of family, work and other courses do not mean extraordinary circumstances. Students are expected to be able to balance these with this course's demands.

Being locked out of the class because of late paying tuition is not considered an extraordinary circumstance, unless it can be documented that the Registrar/Bursar's Office/Financial Aid has made an error.

Inability to access the Internet or Moodle is not considered an extraordinary circumstance.

Incompletes

Highly discouraged. Incompletes will be given to students only due to major reasons outside of their control (e.g. major illness, family tragedy, military service). Students **must** contact the Dean of Students' office and have it determine that the reasons given for not doing the work on time are valid.

Students with disabilities

Students with disabilities needing accommodations of any nature so as to have a fair opportunity to perform in the class need to contact the [counseling center](#). Staff at the counseling center will determine what constitutes a reasonable accommodation and inform the instructor of what it is.

Honor Code

You are expected to follow NJIT's honor code, which can be found at <http://www.njit.edu/doss/policies/honorcode/>.

Tentative Course Outline

The chronological chapter numbers are shown under the 3 main parts. You will note that we shall cover 9 chapters and Hands-on project using Excel, Access, Project Management and Visio, in approximately 14 weeks. ***Important Note:** *The course outline may be modified and the syllabus updated at the discretion of the instructor or justifiable circumstances.*

Withdrawal: 9/28 -50% refund, 10/19 – 25% refund, 11/02 – Last day of Withdrawal w/o effecting grade

Topics	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Module-I: Business Driven MIS														
Chapter 1: MANAGEMENT INFORMATION SYSTEMS: BUSINESS DRIVEN MIS –	■													
Chapter 2: DECISIONS AND PROCESSES VALUE DRIVEN BUSINESS –		■												
Chapter 3: eBUSINESS: ELECTRONIC BUSINESS VALUE –			■	T!										
P-1: Plugged-in projects: You learn by now, on Finance, Accounting, Data Collection & Analysis Skill: Excel- filter, formulas, vlookup, pivot etc			■											
Chapter 5: INFRASTRUCTURE SUSTAINABLE TECHNOLOGY –				■										
Chapter 6: DATA: BUSINESS INTELLIGENCE					■									
Chapter 8: ENTERPRISE APPLICATIONS: BUSINESS COMMUNICATIONS –						M	MT							
Chapter 9: SYSTEM DEVELOPMENT AND PROJECT MANAGEMENT: CORPORATE RESPONSIBILITY–							■							
Appendix - Database								■						
Plugged-in projects: In addition to P-1. Data Analysis, Decision Management, Database (Access), MS Visio, Business process flow, and Strategy Analysis. Skill: Excel, Goal Seek, Scenario Manager, Solver, Start of Access project									■					
Chapter 7: NETWORKS MOBILE BUSINESS –										■				
Chapter 4: ETHICS AND INFORMATION SECURITY: MIS BUSINESS CONCERN – Appendices A, B and C											■			
MS Access project presentation												■		
Project Presentation; Technical paper submission													F	F
													P	

Expected Learning outcomes by students

- ✓ Will learn how does the information ages evolve. Will understand difference between data, information, decision support systems, business intelligence, database, and knowledge
- ✓ Will learn why business needs Management Information systems, how does it encapsulate all business processes and operations to work effectively and efficiently with improved performance? What are critical success factor (CSF) and Key Performance Indicators (KPI) and Value chain analyses in different market strategies.
- ✓ Will learn different ebusiness models and its associated advantages and challenges
- ✓ Will learn and understanding three primary different types of MIS infrastructure, Agile and sustainable.
- ✓ Will learn how data is structured (logically) in database to retrieve information. What are data warehouse, data mart, big data, business intelligence, data analysis, visualization and virtualization?
- ✓ Networks and mobile, wireless technology in business and how does the business gets benefited.
- ✓ Learn Customer Relationship Management (CRM), Supply Chain Management (SCM) Enterprise Resource Planning (ERP). How all these technologies are integrated to maximize performance and sustain in the business?
- ✓ Learn Software Development life cycles (SDLC) and other methodologies to in developing product, Services and software. Will be exposed to very primary aspects of Project Management in developing product/service.

Text/book/Connect

Business Driven Information Systems with Connect Access Card, by Paige, Baltzan, McGraw-Hill

ISBN 9781259675485. Suggested Retail: \$258.73 Connect access code comes with it.

CONNECT ACCESS CARD FOR BUSINESS DRIVEN INFORMATION SYSTEMS

ISBN 9781259564734

Suggested Retail: \$120 + Loose-leaf Direct (\$15)

You have the option of purchasing a print version of the text; Business Driven Information Systems, 5th Edition by Baltzan, or going digital with McGraw-Hill Education Connect® online access; Connect will have SmartBook, an adaptive reading and study experience, in addition to other student resources. **Please note that Connect offers two week courtesy access for any student who would like to try it first.** This two week free access also means there are no excuses for not being able to do the reading start of term.

The bookstore is carrying a discounted bundle of the text with a Connect access code. If you prefer to go digital, you can purchase Connect Online Access during the registration to Connect for \$120. This includes a standard eBook and SmartBook. A print-upgrade option is also available for an additional \$15 via Connect if you find yourself wanting a print companion at some point after you've purchased Connect. This is a full color binder-ready version of the text.

If you choose to get a physical copy of the text from the bookstore it comes with Connect automatically; below is the information you will need.

Title	Edition	Author	Publisher	ISBN
Business Driven Information Systems with Connect Access Code	5th	Baltzan	McGraw-Hill Education	9781259675485

Connect is must for this course. *Book: Your Choice:* Physical copy or add-on a Loose Leaf version of the text via Connect for an additional \$15 at any point during the term or merely eBook with connect.