MODULE HANDBOOK

Management Information Systems

BAF - 5 (A&B)
(CSC573)

Instructor: **Aamir Parre**

Department of Management Sciences
COMSATS University Islamabad

Course Description

This course is designed to help business students learn how to use and manage information technologies to revitalize business processes, improve business decision making, and gain competitive advantage. Thus, it places a major emphasis on up-to-date coverage of the essential role of Internet technologies in providing a platform for business, commerce, and collaboration processes among all business stakeholders in today's networked enterprises and global markets. This is the business and managerial perspective that this course brings to the study of information systems. This course is being planned to provide students with knowledge of Management Information Systems. Different Information Systems used in Organizations and their benefits will be discussed. How all this Information Technology Infrastructure is useful for a Business Manager. What are the issues raised by the Digital Firm environments? Future of MIS. An effort will be made to incorporate current issues and advancements with the primary concepts.

It is a study of the principle and mechanics of Management Information Systems covering analysis, design and development phase. The objective of the course is to create an understanding of Management Information Systems which is important to all students of business industry. The course coverage also includes the information system in the field of business which are capable of recording and reporting of business transactions with a focus on the requirements of accounting and provides financial statements, and statement analysis. It also includes issues relating to decision making for asset management, revenue and expense calculation, internal controls and management.

Course Objectives

The major objective of this module is to develop students understanding of the different I.T. concepts, terminologies and methods used in Management Information Systems. This course is designed in accordance with the current technological trends followed in the industry of Information Systems. The course places a major emphasis on up-to-date coverage of the essential role of internet technologies in providing a platform for business, commerce, and collaboration processes among all business stakeholders in today's networked enterprises and global markets. This is the business and managerial perspective that this course brings to the study of information systems in the form of Development Processes, developing and implementing business / IT strategies and systems using several strategic planning and application development approaches. Similarly, it will cover Management Challenges of Business, IT technologies and strategies, including security, ethical challenges and global IT management. It will be having a crude knowledge of e-Business Applications, usage of the Internet and other information technologies to support their business processes, e-business, e-commerce initiatives and business decision making.

Specific objective includes.
- To increase the understanding of Management Information Systems terminologies.
- Explain Information Systems and components of information systems.
- To develop the understanding the concepts of data and information.
- Explain databases, networks, hardware devices, software, input and output devices.
- To develop the skills to critically analyze requirements and development of knowledge for decision making.
- Implement user-centered approach in system development process with suitable techniques for collecting user requirement and analyzing task in SDLC phases.
- Understand different key elements from E-Business to E-Commerce, Artificial Intelligence, Decision Support System and Internet.

Details of Instructor

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Module Handbook of Management Information Systems for the students of BAF-5, Fall 2022
at Department of Management Sciences, COMSATS University Islamabad, Pakistan

2

Course Instructor: Aamir Parre

Teaching Philosophy

This is an important factor that each student is actively participating throughout this course. Each topic as well as the concerned concept will be discussed in the classroom. Assignments will be assigned to the students that will be done by them at home and the problems arising will be removed. During the semester, student will be involved in different activities such as discussing theories and case studies, their applications and attempting for class quizzes, lab assignments and projects and the two Sessional exams. The assessment and evaluation of a student will be based on the following criteria.

- Individual effort in class together with lecture participation, are designed to achieve the first learning objective for each participant.
- Requirement analysis for a real time Management Information Systems is designed to achieve the second learning objective.

Group Presentation for an assigned Information Systems is designed to achieve the third learning objective.

Academic Dishonesty

Any Academic dishonesty is an offense that will not be tolerated in any form. Any student who is found involved in academic dishonesty will be fully penalized possible allowed by university regulations. If you have any doubts about whether an action constitutes academic dishonesty, please consult with your instructor before taking the action. COMSATS University Islamabad (CUI) defines Academic Dishonesty as follows:

"Cheating, plagiarism (submitting another person's work as one's own, e.g. no citation), or doing and submitting another person's work are all strictly prohibited. All such actions will be considered deceitful and thus unacceptable. In addition, the use of unauthorized materials (books, notebooks, or other sources) during an examination in order to secure or give help will not be tolerated. Academic dishonesty also encompasses unauthorized copying and distribution of examinations, assignments, reports, projects or term papers; or the presentation of unacknowledged material as if it were the student's own work."

Plagiarism, one of the most serious forms of academic dishonesty, is defined as follows:

"Plagiarism is the act of stealing words, ideas or a piece of writing of another and passing them off as one's own. Whenever a student submits a piece of writing claiming it to be his own authorship, it is generally understood that all the ideas, opinions, facts, figures, conclusions, revisions, and words are the student's original work, unless he/she has explicitly indicated otherwise using citations, footnotes, attribution in the text, and/or appropriate quotation marks. A person failing to acknowledge and recognize (using footnotes, attribution in the text, and/or appropriate quotation marks) the contribution of the original author, will be held accountable under academic deception. Such action will necessitate measures to discipline the student under the University's academic dishonesty policy. Any academic dishonesty would call for swift punitive action by the faculty in whose class such dishonesty occurs, and the names of students involved in such acts would be reported in every instance to the concerned Head of that Department."

Module Handbook of Management Information Systems for the students of BAF-5, Fall 2022
at Department of Management Sciences, COMSATS University Islamabad, Pakistan

3

Course Instructor: Aamir Parre

Course Assessment

- **Grades:** Letter grades will be assigned based on the university's standard grading scale.
- In fairness to students who complete assignments on time**, late assignments will not be accepted**. You must turn in assignments during the lecture on the day they are due.
- **Attendance:** Regular classroom attendance is mandatory. Absence from lectures will negatively affect your grade as per University rules. Attendance is entered into the COMSIS system daily. Modifications at later stage are discouraged and are not allowed.
- **Writing Assignments:** In writing assignments, guidelines provided by the instructor are to be followed.
- **Arriving on time:** Late arrivals are disruptive to both instructor and class discussion, and show disrespect to those who are on time.
- **Minimizing disruptions:** All cell phones should be turned off during class. You should not leave and re-enter the class. You should avoid engaging in side conversations after class has begun.
- **Being prepared for class:** You should be ready to discuss any assigned readings and to answer any assigned questions for each day's class, including being ready to open a case assigned for that day.
- **Respect:** You should act respectfully toward all class participants.

Below mentioned is the assessment scheme for this course.

Evaluation methods	Theory Weight (%)[T]
Quizzes (4)	15
Assignments (4)	10
Midterm Exam	25
Terminal Exam	50
Total	**100**

Course Literature

Management Information Systems, Fifteenth Edition, Kenneth C. Laudon, Jane P. Laudon Pearson Education Limited Published 2018 ISBN13- 978-1-292-21175-6

Reference Material

- Management Information Systems by James A O Brien
- Information Technology for Management by Turban, McLean, Wetherbe, Wiley

Module Handbook of Management Information Systems for the students of BAF-5, Fall 2022
at Department of Management Sciences, COMSATS University Islamabad, Pakistan

4

Course Instructor: Aamir Parre

Detail of Course Contents

Week #	Lecture #	Topic(s)	Objective (Goal / Outcome of Topic)	Thinking Level	Tasks for Students	Strategies for Tasks for Students *
1	1	Information Systems in Global Business Today	Development of Conceptual Thinking, Basic Concepts, Strategic Management through IT, Computer System Management	Knowledge & Comprehension	Name, select, describe, define, state, match, summarize, explain, provide examples	Projects, Presentations, Development
	2	What is an Information System, Roles of Information Systems Trends in Information Systems in Business Types of Information Systems				
2	1	Global E-business and Collaboration				
	2	What is Role of Information Systems: Information System Activities Difference between data and information Characteristics of valuable information Importance of Data Processing				
3	1	Information Systems, Organizations, and Strategy		Knowledge & Comprehension	Name, select, describe, define, state, match, provide examples	
	2	What are challenges posed by Strategic Information Systems: Competitive Forces and Strategies Building a Consumer-Focused Business Value Chain and Strategic IS Becoming an Agile Company				
4	1	Ethical and Social Issues in Information Systems		Knowledge & Comprehension	Name, select, describe, define, state, match, summarize, explain, provide examples	
	2	Why do contemporary information systems technology and the Internet pose challenges to the protection of individual privacy and intellectual property				
5				Sessional Exam – I		
6	1	IT Infrastructure and Emerging Technologies	Hardware Understanding, Role of Peripherals, Storage Units	Knowledge & Comprehension	Name, select, describe, define, state, match, summarize, explain, provide examples	Projects, Presentations, Development
	2	What are the current computer software platforms and trends?				
7	1	Foundations of Business Intelligence: Databases and Information Management				
	2	Why are information policy, data administration, and data quality assurance essential for managing the firm's data resources				
8	1	Telecommunications, the Internet, and Wireless Technology		Knowledge & Comprehension	Name, select, describe, define, state, match, summarize, explain, provide	Projects, Presentations, Development
	2	What are the principal technologies and standards for wireless networking, communication, and Internet access				

Module Handbook of Management Information Systems for the students of BAF-5, Fall 2022
at Department of Management Sciences, COMSATS University Islamabad, Pakistan

5

Course Instructor: Aamir Parre

Week	Session	Topic				
9	1	Securing Information Systems				
	2	What are the most important tools and technologies for safeguarding information resources				
10				Sessional Exam - II		
11	1	Achieving Operational Excellence and Customer Intimacy: Enterprise Applications	Decision Support and Ethics for Business and IT	Knowledge & Comprehension	Name, select, describe, define, state, match, summarize, explain, provide examples Judge, prioritize, value, evaluate, conclude, design approaches etc.	Projects, Presentations, Development
	2	What are the challenges that enterprise applications pose, and how are enterprise applications taking advantage of new technologies				
12	1	E-commerce: Digital Markets, Digital Goods				
	2	How has e-commerce transformed marketing				
13	1	Managing Knowledge	Advanced Concepts, Implementation	Knowledge, Comprehension and Practice		
	2	What are the business benefits of using intelligent techniques for knowledge management				
14	1	Enhancing Decision Making				
	2	Decision Support System and Business Intelligence				
15	1	Building Information Systems		Presentations & Final Exam	prioritize, value, evaluate, conclude, design	
	2	What are alternative methods for building information systems (SDLC)				
16	1	Managing Projects				
	2	Managing Global Systems				

* Exactly what students should do to demonstrate mastery at the thinking level indicated.

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6

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