

Title (Units): ITEC2006 Internet and E-Commerce (3,2,1)

Course Aims: To learn the basic concepts of Internet and e-commerce technologies, and gain hands-on experience in setting up systems for Internet and e-commerce applications.

Prerequisite: General Education Core Course from the Information Management Technology Category

Course Intended Learning Outcomes (CILOs):

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

No.	Course Intended Learning Outcomes (CILOs)
	Knowledge
1	Explain the principles of Internet technologies and applications.
2	Describe the business and technological issues of e-commerce and explain the principles of e-commerce systems.
	Professional Skill
3	Set up and maintain systems for Internet and e-commerce applications.
	Attitude
4	Develop a sense to use the Internet and e-commerce for enhancing daily life and work.

Calendar Description: Students will learn the basic concepts of Internet and ecommerce technologies, and gain hands-on experience in setting up systems for Internet and e-commerce applications.

Teaching and Learning Activities (TLAs):

CILOs	Type of TLA
1, 2, 4	Students will attend lectures to learn the principles of Internet and e-commerce. They will be given tutorial questions for class discussion and in-depth learning. They will study some real-world cases to reinforce learning. They will work on a term paper which involves information gathering, self-reading, critical thinking and writing.
3, 4	Students will attend laboratory sessions to set up Internet servers and e-commerce systems.

Assessment:

No.	Assessment Methods	Weighting	CILOs to be addressed	Description of Assessment Tasks
1	Continuous Assessment	40%	1, 2, 3, 4,	Continuous assessments are designed to measure how well the students have mastered the principles and practice of Internet and e-commerce systems.
2	Examination	60%	1, 2, 4	Final examination questions are designed to assess students' understanding in the concepts and their ability to apply these concepts to solve problems.

Assessment Rubrics:

Excellent (A)	<ul style="list-style-type: none">• Achieve the first three CILOs, demonstrating an excellent mastery of both the theoretical and practical aspects of the knowledge and skills in the selected topics• Able to develop correct solutions to problems in internet and e-commerce, accompanied by in-depth analysis and insight• Demonstrate a thorough understanding and solid knowledge of the principles and techniques of internet and e-commerce• Able to draw on a variety of techniques and relevant knowledge and appropriately apply them to new technical situations and real-life problems
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Good (B)	<ul style="list-style-type: none"> • Achieve most of the first three CILOs, demonstrating a good understanding of the associated concepts and underlying methodologies in the selected topics • Able to develop correct solutions to problems in internet and e-commerce, accompanied by adequate explanations • Demonstrate a competent level of knowledge of the principles and techniques of internet and e-commerce • Ability to make use of appropriate techniques and knowledge and apply them to familiar situations and problems
Satisfactory (C)	<ul style="list-style-type: none"> • Achieve some of the first three CILOs, demonstrating a basic level of understanding of the associated concepts and underlying methodologies in the selected topics • Able to provide acceptable solutions to problems in internet and e-commerce • Demonstrate an adequate level of knowledge of the principles and techniques of internet and e-commerce • Ability to make use of some techniques and knowledge and apply them to familiar situations and problems
Marginal Pass (D)	<ul style="list-style-type: none"> • Achieve few of the first three CILOs, with minimal understanding of the associated concepts and underlying methodologies in the selected topics • Able to provide solutions to simple problems in internet and e-commerce • Demonstrate a basic level of knowledge of the principles and techniques of internet and e-commerce • Ability to apply some techniques and knowledge to a limited number of typical situations and problems
Fail (F)	<ul style="list-style-type: none"> • Achieve none of the first three CILOs, with little understanding of the associated concepts and underlying methodologies in the selected topics • Unable to provide solutions to simple problems in internet and e-commerce • Knowledge of the principles and techniques of internet and e-commerce falling below the basic minimum level • Unable to apply techniques or knowledge to familiar situations or problems

Course Content and CILOs Mapping:

Content		CILO No.
I	Internet Concepts	1,4
II	E-Commerce Concepts	2,4
III	Internet and E-Commerce Applications	3,4

References:

- Comer, Douglas. Computer networks and Internets. 6th edition, Pearson, 2015
- Kurose, James F., and Keith W. Ross. Computer networking: a top-down approach. 7th edition, Pearson, 2017
- Laudon, Kenneth C., and Carol G. Traver. E-commerce: business, technology, society. 12th edition, Pearson, 2017
- TURBAN, EFRAIM. Introduction to electronic commerce and social commerce. 4th edition, SPRINGER INTERNATIONAL PU, 2017

Course Content:

Topic

- I. Internet Concepts
 - A. Internetworking: systems, protocols, and applications
 - B. Broadband and wireless Internet access
 - C. World wide web: protocol, servers, proxies, web services
 - D. Search engines
- II. E-Commerce Concepts

- A. Types of e-commerce
 - B. E-commerce business models
 - C. Database management
 - D. Online security and payment systems
- III. Internet and E-Commerce Applications
- A. Basic system administration
 - B. Setting up Internet servers (such as web server, mail server, ftp server, etc.)
 - C. Building an e-commerce site