

# IT310: E-Commerce Technology

Fall 2025

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**Instructor: Dipesh Patel**  
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**Class:** R 02:30 PM to 03:50 PM CKB 313  
**Office Location:** TBA  
**Office Hours:** M 09:00 AM to 12:00 PM  
(via Zoom)

## ***Course Description:***

This course provides an introduction to the three major driving forces behind e-commerce to provide a coherent conceptual framework for understanding the field: technology change, business development, and social issues. Topics covered include: Technology Infrastructure for E-commerce; the Internet and WWW; Building and E-commerce web site; Security and Payment; Business Concepts and Social Issues; Online Retailing and Services; Online Content and Media; Social Networks, Auctions, and Portals; B2B E-Commerce Technology.

## ***Number of Credit Hours:***

3

## ***Prerequisite or Co-requisite:***

Computing GUR

## ***Materials Required:***

Textbook:

1. E-Commerce Technology | 17<sup>th</sup> Edition | ISBN-13: 978-0-1379-2220-8  
by Kenneth Laudon & Carol Traver | Pearson

Software:

1. No additional software is required

Storage:

1. Some place to store files like Flash Drive, OneDrive, Google Drive, Box, etc.

## ***Course Objectives:***

At the end of this course the students will have a very good understanding of the modern Electronic Commerce technologies, the underlying e-commerce infrastructure, the business and legal aspects as well as designing and implementing an actual e-commerce website. The students will be able to design an e-commerce web site that has a SQL database back-end, a search module, a shopping cart, and a payment processing system.

## ***Course Learning Outcomes***

Upon successful completion of course, students will be able to:

- Build an e-commerce website from scratch or using CMS.
- Understand the technologies required to build e-commerce website.
- Assess the risks involved and mitigate methods of protection.
- Integrate shopping cart and payment system.
- Write a business plan for e-commerce.

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## **Course Requirements:**

This course is a hybrid course integrating both classroom lecture and lab for hands-on experience.

### **Exams:**

There are two exams. I will notify you of the exam date at least one week before the exam is given. If you are not in class that day, it is your responsibility to find out when the exam will be given. If you miss the exam, your grade for that exam will be zero. **Makeup examinations are provided only under exceptional circumstances and the student has to notify me before the exam begins either by e-mail or in person that they will miss the exam.**

### **Homework / Project Assignments:**

Details of the homework assignments will be handed out or posted on Canvas. Assignments are to be submitted via Canvas. Homework assignments are to be completed individually by you. You may work in groups to complete the assignment, but each student must submit their own file. If you are having trouble with an assignment, please feel free to contact me or ask any student in the class. **Do not copy an assignment from another student and submit it as your own. If detected, you will get a zero for the assignment and reported to the Dean's office.** Every assignment must be completed and submitted via Canvas.

*Please note that the acquisition of academic work in whole or in part from any source (from textbooks and journal articles to web resources to generative AI) and the subsequent presentation of those materials as the student's own work (whether that material is paraphrased or copied in verbatim or near-verbatim form) constitutes an academic integrity violation, unless appropriately cited.*

### **Late Assignment:**

Approved assignments that are turned in late, will be subject to penalty as follows:

1. Group / Homework Assignment - 10% reduction of the grade
2. Discussion Board - 10% reduction of the grade
3. Case Study - 20% reduction of the grade
4. Project - 20% reduction of the grade
5. Quiz / Exam - 20% reduction of the grade

NOTE: The last day late assignments will be accepted the instructor is communicated via Canvas Announcements.

### **Academic Dishonesty:**

Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>

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Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at [dos@njit.edu](mailto:dos@njit.edu)

## ***Class Attendance:***

For *Online Virtual* class attendance will not be taken. Your attendance is directly based on performance in the course. You are required to post the Introduce Yourself video to ensure you are participating in the course.

For *in-person (face-to-face, hybrid)* class, attendance will be taken each session we meet. If you missed the class, it is your responsibility to find out about any lecture material, homework assignments and exams discussed in class. Attendance is highly correlated with good performance in the class, so attendance will be taken at each meeting.

Absences may be excused for athletics, religious holidays, illness, military obligation or family emergencies if you contact me before the missed class. Students expecting to miss classes or exams due to [Religious Observances](#) must submit a written list of dates, ideally by the end of the second week of class, but no later than two weeks before the anticipated absence. In addition, please ensure you contact the Dean of Students regarding your absence.

## ***Typical Assignments:***

Students will be assigned discussion/research topics. Homework will be assigned based on the cases discussed in class. Forum posts are assigned on a weekly basis. A comprehensive group project is assigned and involves a complete study of a digital crime, from the technology used to how the criminals were caught, what methods were used for surveillance, how the digital evidence was obtained and investigated, the prosecution and laws pertaining to that particular crime investigation.

## ***Communication:***

The best communication method to reach me is via email. Once you get in contact with me, I will acknowledge or respond to your inquiry within 48 hours. During weekends and holidays responses will be delayed. Please refrain from sending multiple emails of same case via different account Canvas and GMail.

In the subject line, please add:

***IT310\_XX: Subject***

where

XX is your section number

Subject is what is your inquiry about

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Warning: If you do not follow the above guideline, your message will not be replied in proper time frame.

## **Performance Evaluation:**

The course grade would depend upon your performance on assignments and exams. The following is an allocation of weights:

<u>Evaluation</u>		<u>Grading</u>	
Attendance / Discussion / Participation	5%	A	A(90-100)
Group / Homework	10%	B	B+(85-89), B(80-84)
Case Study	10%	C	C+(75-79), C(70-74)
Project Proposal	10%	D	D (60-69)
Team Project / Presentation	25%	F	59 or less
Written Exams (Midterm and Final)	40%		
Total	100%		

## **Tentative Class Schedule:**

<b>Week</b>	<b>Lecture</b>	<b>Activities / Dues</b>
1	Introduction to the Course	
2	The Revolution Is Just Beginning	
3	E-Commerce Business Models and Concepts	
4	The E-Commerce Infrastructure (The Internet, Web, and Mobile Platform)	
5	Building an E-Commerce Presence (Websites, Mobile Sites, and Apps)	
6	E-Commerce Security and Payment Systems	
7	E-Commerce Marketing and Advertising Concepts	
8	Written Midterm Exam Social, Mobile, and Local Marketing	<b>Midterm Exam</b>
9	Ethical, Social, and Political Issues in E-Commerce	
10	Online Retailing and Services	
11	Online Content and Media Delivery	
12	Social Networks, Auctions and Portals Integration	
13	B2B E-Commerce Supply Chain Management and Collaborative Commerce	
14	Presentations	<b>Project</b>
15	Written Final Exam	<b>Final Exam</b>
<b>Note:</b>	Chapters to cover on the indicated dates may vary according to each individual class.	

## **Optional Topics:**

1. Development and integration with E-Commerce web sites of shopping carts and credit card payment systems