Course Name	COMPUTER SECURITY & PRIVACY	Course Code	COMP 323		
Credit Hours	3	Contact Hours	Lec	Lab	Total
			2	2	4
Offered as	☐ University Requirement ☐ College Requirement ☒ Program Requirement ☒ Core ☐ Elective ☐ ITEC ☒ COMP ☐ CNET				
Level	6	Prerequisite	ITEC 251		

Course Description:

This course provides an integrated, comprehensive and up-to-date coverage of topics in Computer Security. The list of topics covers the basics of Computer Security, Cryptographic Tools, User Authentication, Access Control, Malicious Software, Denial-of-Service Attacks, Intrusion Detection and Message authentication.

Upon completion, the student will be able to:

- Discuss the basic concepts and goals of Information Security and explain their relevance in various contexts.
- Explain the fundamental principles of access control models and techniques, authentication and secure system design.
- Describe different cryptographic protocols and techniques, respective strengths, weaknesses, application and implementation techniques.
- Illustrate the methods and techniques to be applied for intrusion detection and prevention.
- Familiarize with various types of malicious software, attacks and their countermeasures for information security.

Assessment Methods							
	Exam-1 ☒	10%	Exam-2 ☒	10%	Assignments ☒	20%
	Attendance ☐	-	Lab Exam ☒	20%	Final Exam ☒	40%

Text Book:

- W. Stallings, "Computer Security: Principles and Practice", Pearson, 3rd Edition, ISBN-13: 978- 0133773927, 2014.

References:

- Charles Pfleeger, Shari Lawrence Pfleeger & Jonathan Margulies, "Security in Computing", 5th Edition, Prentice Hall, ISBN-13: 978-0134085043, 2015.
- Richard E. Smith, "Elementary Information Security", 2nd Edition, Jones & Bartlet Learning, ISBN: 1284055930, 2015.
- Matt Bishop, "Computer Security: Art and Science", 1st Edition, Addison-Wesley, ISBN-13: 978-013428951, 2015.