COURSE NAME: E-commerce Security

COURSE NUMBER: IASP 545

CREDITS: 3

CATALOGUE DESCRIPTION:
This course introduces current threats facing organizations that conduct business online and how to mitigate these challenges. It will cover cryptography review, certificates, secure credential services and role-based authorization, mobile code security, security of agent-based systems, secure electronic transactions, electronic payment systems, intellectual property protection, and issues on law and regulation.

PREREQUISITE: CISC385

OVERALL OBJECTIVES:
To prepare student to understand current threats facing organizations that conduct business online and how to mitigate these challenges, to apply cryptography and related security techniques to e-commerce including secure electronic transactions, electronic payment systems, intellectual property protection, and issues on law and regulation.

LEARNING OUTCOMES:
This course will prepare student
- to understand current threats facing organizations that conduct business online and how to mitigate these challenges,
- to apply cryptography and related security techniques to e-commerce including secure electronic transactions, electronic payment systems, intellectual property protection, and issues on law and regulation.

COURSE CONTENT
- The importance of e-commerce security to the business enterprise.
- Current threats facing organizations that conduct business online and how to mitigate these challenges.
- Cryptography review
- public key certificates and infrastructures, authentication and authorization certificates,
- secure credential services and role-based authorization,
- mobile code security,
- security of agent-based systems,
- secure electronic transactions,
- electronic payment systems,
• intellectual property protection,
• Law and Regulation

COURSE MATERIALS
Textbook

ENABLING ACTIVITIES:
• Class Lectures
• Class Discussions
• Case Studies
• Research paper focusing on E-commerce security.

STUDENT OUTCOMES ASSESSMENT
• Case Studies 30%
• Research Paper 30%
• Midterm Exam 20%
• Final Exam 20%

REFERENCE BIBLIOGRAPHY
• Electronic Commerce Research, http://www.springer.com/sgw/cda/frontpage/0,11855,4-0-70-35740341-0,00.html?referer=www.wkap.nl
• Journal of Electronic Commerce Research http://www.csulb.edu/web/journals/jecr/a_j.htm
• Journal of Internet Banking and Commerce http://www.arraydev.com/commerce/JIBC/
• Journal of Internet Purchasing http://www.arraydev.com/commerce/JIP/current.asp