Department: Business Administration		Program: MBA	
Course Name	IT Security & Strategy (ITSS)	Course Code	MIS 623
Pre-requisite	Not Applicable	Credit Hours	3

Brief Description

⬎ In this course students learn the basics of information security, in both management and technical aspect. Students understand various types of security incidents and attacks, and learn methods to prevent, detect and react to incidents and attacks. Students will also learn the basics of application of cryptography, which is one of the key technologies to implement security functions. In the last session, teams of students will present their study project on a topic related to information security.

Course Objectives

After completion of this course the student will be able to:
⬎ Understand the requirements of information security strategies.
⬎ Explain various information security threats and control for them.
⬎ Analyze a security incident and design counter measures.
⬎ Explain information security incident responses.
⬎ Explain the usage of Common Key cryptography and Public Key cryptography.
⬎ Explain the mechanism to protect confidentiality and completeness of data.
⬎ Make a presentation related to information security strategies.

Course Learning Outcomes

⬎ Distinguish between concepts, principles, and theories of ITSS
⬎ Apply the concepts, principles, and theories of ITSS in different business situations
⬎ Demonstrate written communication skills
⬎ Have oral communication skills
⬎ Have skills of using ITSS applications in business administration
⬎ Have scientific research skills in the field ITSS
⬎ Have the skills of critical thinking and analysis in the fields of ITSS
⬎ Have the skills in strategic thinking and finding solutions in ITSS
⬎ Believe, and practice sustainability in the context of ITSS
⬎ Have the skills of leadership, teamwork, and decision making in ITSS
⬎ Have the ability to distinguish between ethical issues in ITSS
⬎ Have the competence of social responsibility in the fields of ITSS
⬎ Have the competence to deal with cultural diversity in ITSS

Course Topics

⬎ Information Security Requirements
⬎ Basics of Information Security and Human aspects

- Information Security for Server Systems
- Information Security for Client devices
- Information Security Risk Management and Related Exercise
- Security Risk management as an organization
- Information Security Management System (ISMS)
- Information Security Policy, Standards and Procedures
- Information Security Evaluation
- Security Incident Response
- Information Security and Cryptography

Text Book

- Whitman, M. E. and Mattord, H. J. (2014) *Principles of Information Security*. KY, USA: Cengage Learning.
- Shimeall, T. and Spring, J. (2013). *Introduction to Information Security: A Strategic-Based Approach*. Waltham, MA: Syngress Publishing

Additional References

- Paa, C. and Pelzl, J. (2009) *Understanding Cryptography: A Textbook for Students and Practitioners*. Springer. London ISBN: 3642041000.

Online Resources

- **None**

Course Outline

Week	Hours	Topics	Remarks
1	3	Overview of Information Security	
2	3	Information security requirements	
3	3	Basics of Information Security and Human aspects	
4	3	Information Security for Server Systems	
5	3	Information Security for Client devices	
6	3	Information Security Risk Management	
7	3	Midterm Exam	
8	3	Information Security Risk Management Exercise	
9	3	Security Risk management as an organization	
10	3	Information Security Management System (ISMS)	
11	3	Information Security Policy, Standards and Procedures, Case study	
12	3	Information Security Evaluation	
13	3	Security Incident Response	
14	3	Information Security and Cryptography	
15	3	Presentation	

Measurement and Assessment Tools															
Assessment Tools	Grades	Week	Knowledge	Skills						Values					
			Identify and apply	Written	Oral	Information Technology	Research	Critical thinking	Strategic thinking	Sustainability	Leadership	Ethics	Corporate Social responsibility	Cultural diversity
Midterm Exam	20	9	X											
Case Study	10	12		X				X	X	X	X	X	X	X
Project	20	15		X		X	X	X	X	X	X	X	X	X
Presentation	10	15			X	X								
Final Exam	40	TBD	X											
Total	100													

Approved by Department Chair	Date of Approval

Additional Information: Updated every Semester by Course Instructor	
Course Instructor	
Department	
Phone No.	
Extension No	
Email	