Course Number and Title	IT171 Managing Risk in Information Systems

Credit Hours	3

Course Description	Business managers depend on risk management to allow them to make appropriate decisions regarding the allocation of resources throughout their organization. As information systems continue to be a major investment and critical business components, risk management relating to information technology (IT) and information systems becomes increasingly important. This course explains ways in which IT professionals can identify risks, threats, and vulnerabilities to information systems. Furthermore, it offers ways to assess, mitigate, and manage risk effectively within an organization. Finally, the course explains effective planning approaches for business impact analysis (BIA), business continuity, and disaster recovery.

Prerequisite(s) and/or Corequisite(s)	IT170

Required Textbooks/References/Course Materials:

Server Pro 2016: Networking		TestOut	TestOut	9781935080671

	General Education Outcomes
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program/Department Outcomes
1	Discuss and evaluate potential technology related ethical dilemmas and apply decision-making techniques to resolve them.
2	Demonstrate proficiency in selecting, implementing, and operating information technology solutions to meet project requirements.
3	Apply essential IT support skills in order to install, configure, secure, and troubleshoot operating systems, programs, networks, and pc hardware.
4	Prepared to take and pass industry standard certification exams.
5	Develop the ability to use oral and written communication effectively with clients and other industry professionals.
6	Engage in teams to develop and/or implement IT-based project solutions.
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/ Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Explain the basic concepts of and need for risk management.	Cognitive Understanding (2)	1,2,4,5	2	2	2	2	0	0
2	Explain methods of mitigating risk by managing threats vulnerabilities, and exploits.	Cognitive Understanding (2)	1,2,4,5	2	2	2	2	0	0
3	Identify compliancy laws, standards, best practices, and policies of risk management.	Cognitive Understanding (2)	1,2,4,5	2	2	2	2	0	0
4	Describe techniques for identifying and analyzing relevant threats, vulnerabilities, and exploits.	Cognitive Applying (3)	1,2,4,5	2	2	2	2	0	0
5	Identify assets and activities to protect within an organization.	Cognitive Analyzing (4)	1,2,4,5	2	2	2	2	0	0
6	Identify threats, vulnerabilities, and exploits.	Cognitive Analyzing (4)	1,2,4,5	2	2	2	2	0	0
7	Describe concepts for planning risk mitigation throughout an organization.	Cognitive Evaluating (5)	1,2,4,5	2	2	2	2	0	0
8	Describe concepts for implementing a risk mitigation plan.	Cognitive Applying (3)	1,2,4,5	2	2	2	2	0	0
9	Perform a business impact analysis.	Cognitive Analyzing (4)	1,2,4,5	2	2	2	2	0	0
10	Create a business continuity plan (BCP) and a disaster recovery plan (DRP) based on the findings of a given risk assessment for an organization.	Cognitive Creating (6)	1,2,4,5	2	2	2	2	0	0

Bloom's Domain Legend
C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend
2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: May 2021
Reviewed: November 11, 2021