Course Name	Security Risk Analysis and Management		تحليل وإدارة المخاطر الأمنية	
Course Information	**Course Code**	**Course No.**	**Credit Hour**	**Prerequisite(s)**
	0912635	IS 635	3 (3-0-6)	0912614
Course Track	☐ Program Core ☒ Electives			

Course Description

Risk management processes assesses the overall security condition of organizations, analyses the collected data and plan to select appropriate security controls to implement it. The objective of this course is to enable students to understand the details of risk management and develop a basic risk management program for security of organization's information assets. The course will discuss in detail the phases of risk management lifecycle, the details of risk management process including risks and their components, risk assessment and risk mitigation, different risk assessment frameworks like COBIT, ISO/IEC standards, NIST framework etc., risk profiling, risk treatment strategies and risk monitoring. Security policies help to define the ways to implement the planned security in the form of written documents like security procedures, guidelines and recommendations. The course will also focus on understanding different types of security policies including general security policy, issue specific policy and systems policy. At the end, the course will focus on planning and building a risk management program in detail.

Course Outcomes

After the completion of this course, the student will be able to:

1. **Describe** the importance and evolution of risk management for organization's information security. [A]
2. **Explain** the phases of risk management life cycle including risk assessment, risk mitigation and validation. [A]
3. **Evaluate** organization's information assets and identify risks for them. [B]
4. **Analyze** the identified risks to decide about their mitigation. [C]
5. **Decide** and **Plan** risk management program and security policies for organization. [C, D]

Assessment Policy	**Assignments**	10%	**Quiz**	10%	**Project**	15%
	Midterm	25%	**Final**	40%	**Others**	-

Textbook	Freund, J., & Jones, J, "*Measuring and managing information risk: A FAIR Approach*", 1st Edition, Butterworth-Heinemann, 2015. ISBN-13: 9780127999326
References	1. Evan Wheeler, "*Security Risk Management: Building an Information Security Risk Management Program from the Ground Up*", 1st Edition, Syngress, 2011. ISBN-13: 978-1597496155 2. Thomas R. Peltier, "*Information security risk analysis*", 3rd Edition, Auerbach Publications, 2010. ISBN-13: 978-1439839560