Course Name	*Security Audit and Compliance Testing*	تدقيق الأمن وفحص الامتثال		
Course Information	**Course Code**	**Course No.**	**Credit Hour**	**Prerequisite(s)**
	0912636	IS 636	3 (3-0-6)	0912614
Course Track	☐ Program Core ☒ Electives			

Course Description

Organizations are compelled by state laws and business needs to implement cyber security and defined standards lay down the compliance requirements to achieve it. This course starts with focus on compliance topics including need of security compliance for information systems, compliance overview along with domestic and international compliance laws. The course then focuses on auditing modern computer systems, common frames of reference by establishing a baseline of technological understanding of risks, security control objectives and standards (e.g. COSO, SOx, ISACA COBIT, NIST framework) to perform IT audit function. The course provides analytical skills to apply audit planning process and management concepts to IT systems. The course discusses the evidence of audit success by deciding the criteria for success, statistical sampling and methods of evaluation by quantitative methods or simulations. The applied knowledge to perform auditing for different technological systems including IT infrastructure, application controls, operating systems and information systems will be discussed towards end including report writing that documents the findings uncovered during the auditing process.

Course Outcomes

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

1. **Describe** the basic concepts and standards of information compliance. [A]
2. **Describe** the fundamental concepts of IT auditing and security controls to ensure acceptable security level for organizations. [A]
3. **Explain** the process and procedures to conduct audit according to different Auditing frameworks and standards. [A]
4. **Analyze** the compliance, legal and security policy requirements to implement security controls for security of organization. [B]
5. **Select** the most suitable and cost effective security controls according to risk management program strategy. [C]
6. **Plan** audit for different application level controls and systems. [D]

Assessment Policy	**Assignments**	10%	**Quiz**	10%	**Project**	15%
	Midterm	25%	**Final**	40%	**Others**	-
Textbook	Martin Weiss, Michael G. Solomon, "*Auditing IT Infrastructures for Compliance (Information Systems Security & Assurance)*", 2nd Edition, Jones & Bartlett Learning, 2015. ISBN-13: 978-1284090703.					
References	1. Richard E. Cascarino, "*Auditor's Guide to IT Auditing*", 2nd Edition, Wiley, 2012. ISBN-13: 978-1118147610. 2. Robert R. Moeller, "*IT Audit, Control and Security*", 2nd Edition, Wiley, 2010. ISBN-13: 978-0471406761.					