Course Name	*Future Trends in Information Security Research*		الاتجاهات المستقبلية في أبحاث أمن المعلومات	
Course Information	**Course Code**	**Course No.**	**Credit Hour**	**Prerequisite(s)**
	0912638	IS 638	3 (3-0-6)	0914611, 0912615
Course Track	☐ Program Core ☒ Electives			

Course Description

Cybersecurity is an evolving field wherein unpredicted emergence of disrupting innovations may radically change the existing information security landscape. The aim of this course is to provide students with near-future information security issues that are related to new technologies, services, and business models. Advancement in tools and techniques used for IT risk management, cybersecurity intelligence, securing networks, software systems and web applications will be discussed. Prominent topics of study may include use of Block chain technologies for information security solutions, expanding role of artificial intelligence in enhancing the resilience of computer infrastructure, use of crowdsourcing for reporting information security incidents and cybersecurity testing, and establishment of international legal framework to share information on cybersecurity incidents. The course is taught by delivering lectures, conducting group discussions on selected case studies and discussing peer-reviewed research articles published in reputed InfoSec journals.

Course Outcomes

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

1. **Identify** the issues and trends in information security. [B]
2. **Recognize** the recent approaches, methods and tools used in the field of information security. [A]
3. **Identify** factors and attributes that affect the realization of the trends in information security. [B]
4. **Develop** skills to conduct independent research in contemporary topics in information security. [E]

Assessment Policy	**Assignments**	10%	**Quiz**	10%	**Project**	15%
	Midterm	25%	**Final**	40%	**Others**	-
Textbook	No specific textbook for this course. Selected scientific papers, excerpts from case studies and books covering each topic will be used.					
References	1. Stamp, M., '*Introduction to Machine Learning with Applications in Information Security*', 1st Edition, CRC Press, 2017. ISBN-13: 978-1138626782 2. Resources provided by InfoSec certifying organizations such as ISACA, ISC2, SANS					