

Sub.	Course Description – توصيف مقرر دراسي – الموضوع	الموضوع	 <b>كلية المعرفة</b> ALMAAREFA COLLEGE
Date		التاريخ	

Course Code & No	INFO482	482نظم	رقم المقرر ورمزه
Course Name	Information Security	أمن المعلومات	اسم المقرر
Credit Hours	3( 2 + 1 + 0 )	3( 2 + 1 + 0 )	عدد الساعات المعتمدة
Pre-requisite	INFO 351	351 نظم	المتطلب السابق

<b>General Description</b>	توصيف عام
<p>This course aims at introducing students with:  The concepts of privacy, information security, and information systems security; Knowledge and skills for security of information and information systems within organizations; in addition to concepts and methods associated with security across several systems platforms, including internal and Internet-facing systems.</p>	

<b>Course Objectives</b>	أهداف المقرر
<ul style="list-style-type: none"> <li>• Recognize the overall framework and principle concepts of information security, integrity and confidentiality.</li> <li>• Recognize the basic operation and limitations of common information and system safeguards.</li> <li>• Outline laws, codes of practice, and standards that form the context for information security and privacy.</li> <li>• Recognize primary threat scenarios of potential vulnerabilities for selected information system security settings.</li> <li>• Write and define information system security functions and safeguard using contemporary tools.</li> <li>• Explain information security model.</li> <li>• Analyze information security vulnerability situations.</li> <li>• Design protection, encryption, detection, prevention solutions suitable for different information systems threats .</li> <li>• Develop skills for solving security problems related to different types of information systems.</li> <li>• Use and apply information security techniques for securing various information systems.</li> <li>• Demonstrate appreciation ethnic cultural differences in working with global teams either internal to organizations or by engaging offshore outsourcers.</li> <li>• Show active participation in a substantially complex software security development which</li> </ul>	

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<p>requires efficient and highly-cooperated team work .</p> <ul style="list-style-type: none"> <li>• Demonstrate successful/professional relationship with other students.</li> <li>• Operate different security tools.</li> </ul>	
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<b>Course Outlines</b>	مفردات المقرر
<ul style="list-style-type: none"> <li>• Data protection.</li> <li>• Detection and reaction</li> <li>• Confidentiality, integrity, and availability, Security threats, attacks.</li> <li>• Networked/distributed System security.\ WWW security.</li> <li>• Firewalls.\ Encryption.</li> <li>• Public Key Infrastructure (PKI).\ Credentials Identification and Authentication.</li> <li>• Access Controls.\ Computer Security</li> <li>• Identity Management \ Security Policy and Standards.</li> <li>• Security Tricks and the Human Factor.</li> <li>• Vulnerabilities and the vulnerability Landscape</li> <li>• Threat modeling and risk assessment</li> <li>• Security management.</li> <li>• The Security Process.</li> <li>• Digital electronic systems security.</li> <li>• Secure telecommunications systems.</li> </ul>	

<b>References</b>	المراجع
<ul style="list-style-type: none"> <li>• Whitman, M. and Mattord, H., Principles of Information Security, 4th Ed. , Course Technology, 2011</li> <li>• Stamp, Mark. Information security: principles and practice. John Wiley &amp; Sons, 2011</li> </ul>	