

نموذج رقم (١٢)

جامعة: دمياط
كلية: العلوم
قسم: الرياضيات

توصيف مقرر دراسي فصل ثان

١ - بيانات المقرر :		
الرمز الكودي : ٤١٤ س	اسم المقرر: موضوعات مختارة في أمن المعلومات	المستوى: الرابع
التخصص: علوم الحاسب	عدد الوحدات الدراسية: ٣	نظري: ٢ عملي: ٢

By the end of the course the student must be able to: 1. Provide fundamentals and comprehensive understanding of information security. 2. Introduce an overview of major information security issues, technologies, and approaches. 3. Introduce a concept and knowledge of security properties, concerns, policies, models, cryptography, PKI, firewalls, security evaluation, and real-life security cases. 4. Provide hands-on experience in selected information security technologies through lab sessions.	٢ - هدف المقرر:
٣ - المخرجات التعليمية المستهدفة من المقرر:	
By the end of the course the student must be able to: a1. Explain the need for Information security. a2. Describe the major challenges and issues that affect information security. a3. Identify different management processes that play the important roles in applying information security. a4. Explain the Public Key Infrastructure process. a5. Define Information security.	أ. المعرفة والفهم :
By the end of the course the student must be able to: b1. Recognize common attack patterns. b2. Evaluate vulnerability of an information system and establish a plan for risk management. b3. Demonstrate how to detect and reduce threats in Web security. b4. Evaluate the authentication and encryption needs of an information system.	ب. القدرة الذهنية :
By the end of the course the student must be able to: c1. Demonstrate how to compliance with information security standards. c2. Identify and analyze risks in any organization and choose appropriate risk handling option. c3. Demonstrate how to design business continuity and disaster recovery planning.	ج. مهارات مهنية وعملية :
By the end of the course the student must be able to: d1. Identify and analyze risks in any organization and choose	د. المهارات العامة والقابلة للنقل:

appropriate risk handling option.
d2. Use the World Wide Web effectively.
d3. Adapt to the new developments in computer hardware and software in laboratories.
d4. Work within and contribute to a team using management skills such as project design and evaluation.

Part I:

م	المحتويات	الأسبوع	نظري	تمرين	عملي	المجموع
registration						
1						
2	Introduction to Security.	2	2	0	0	2
3	Overview of Threats, Security Infrastructure & Centralized Security Management	3	2	0	0	2
4	Introduction to Authentication, Authorization, and Accounting (AAA).	4	2	0	0	2
5	Identity Management, SSO, AAA.	5	2	0	0	2
6	Attacks Against OSs and Applications.	6	2	0	0	2
Mid Term Exam						
7						
8	Cryptography Overview.	8	2	0	0	2
9	Cryptography Implementation.	9	2	0	0	2
10	Physical Vulnerabilities.	10	2	0	0	2
11	Network Security: Intrusion Detection (IDS/IDP).	11	2	0	0	2
12	Network Security: Network Access Control (NAC).	12	2	0	0	2
13	Wireless Security,	13	2	0	0	2
14	Security Policies Security Administration.	14	2	0	0	2

Part 2: Practical

م	المحتويات	الأسبوع	نظري	تمرين	عملي	المجموع
registration						
1						

١- محتويات المقرر:

1	2	0	0	2		2	
1	2	0	0	3		3	
1	2	0	0	4		4	
1	2	0	0	5		5	
1	2	0	0	6		6	
Mid Term Exam						7	
1	2	0	0	8		8	
1	2	0	0	9		9	
1	2	0	0	10		10	
1	2	0	0	11		11	
1	2	0	0	12		12	
1	2	0	0	13		13	
1	2	0	0	14		14	
1. Lectures 2. Practical 3. Discussion 4. Solving problem 5. Cooperative education							
لقاءات فردية – تيسيرات علمية – تعاون شخصي – نقاش علمي							٦- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة :
٧- تقويم الطلاب:							
	Types		Assessment				أ. الأساليب المستخدمة:
	Oral exam		d1,d2,d3,d4				
	Midterm exam		a1,a2,b1,b2				
	Final exam		a1,a2,a3,a4,b1,b2,b3,b4				
Assessment 1	Midterm Exam			Week 7			ب. التوقيت :
Assessment 2	Oral exam			Week 15-17			
Assessment 3	Practical exam			Week 14			
Assessment 4	Final written exam			Week 15-17			
Oral examination:				5 %			ج. توزيع الدرجات:
Practical/laboratory examination:				25 %			
Mid Term examination:				10%			
Final term examination:				60 %			
Total:				100 %			
٨- قائمة الكتب الدراسية والمراجع:							

Lecture notes prepared by academic staff members in the department.	أ. مذكرات
CompTIA Security + Review Guide, by Stewart, James Michael Second Edition, 2011.	ب. كتب ملزمة
Principles of Information Security by Michael E Whitman and Herbert J Mattord. 2003.	ج. كتب مقترحة
	د. دوريات علمية أو نشرات... الخ

أستاذ المادة

د/ أحمد محمد ربيع

