

Benha University

Cryptography and Network Security CES 603

Computer Systems Engineering

Electrical Engineering Department



Faculty of Engineering (at Shoubra)

Course Title:	Cryptography and Network Security	
Course Code:	CES 603	
Course Page:	http://bu.edu.eg/staff/islam.elshaarawy-courses	
Instructor:	Dr. Islam ElShaarawy (http://www.bu.edu.eg/staff/islam.elshaarawy)	
Main Textbook:	William Stallings. Cryptography and Network Security: Principles and Practice. 6 th Edition, Pearson Education, Inc., 2013, ISBN 978-0133354690.	
Other Reference(s)	Christof Paar and Jan Pelzl. Understanding Cryptography. 1st Edition, Springer-Verlag Berlin Heidelberg, 2010, ISBN 978-3642041006.	
Online Resources:	 http://williamstallings.com/Cryptography/Crypto6e-Student/ http://www.crypto-textbook.com/ 	
Course Contents:	 Overview Classical Encryption Techniques Block Ciphers and the Data Encryption Standard Pseudorandom Number Generation and Stream Ciphers Public-Key Cryptography and RSA Other Public-Key Cryptosystems Digital Signatures Key Management and Distribution User Authentication Network Access Control and Cloud Security Electronic Mail Security 	
Course Policy:	 Attendance is compulsory. Reading the relevant chapter(s) ahead of lectures is essential. Keeping track of whatever happens during the lectures is the student responsibility regardless of attendance. Side talking, cellphones, laptops, food/drinks, and walking¹ are not allowed. Side talking, cellphones are used for solving the assignments. 	
Grading System:	Attendance ² : 000	

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Assignments:	010
Quizzes:	010
Midterm Exam:	010
Project:	010
Final Exam:	060
Total	100

¹ If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.

² Attendance will be taken anyway.