

بسم الله الرحمن الرحيم

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University: Baghdad
College: Science for Women
Department: Computer Science
Stage: Fourth
Lecturer name: Dr. Ali Kadhim
Qualification: Asst. Professor
Place of work: Same Place

Syllabus Form

Instructor Name	Dr. Ali Kadhim Mousa				
E-mail	drali@cs.w.uobaghdad.edu.iq				
Course Title	Data Security				
Course Coordinator					
Course Objectives	Teaching students the science of Cryptography.				
Course Description					
Textbook	Security in Computing, by Charles P. Pfleegers Fourth Edition, Prentic Hall,2006				
References					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(25%)	As(5%)		As(10%)	As(60%)
General Notes					

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Course Weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments
1			
2			
3			
4			
5			
:			
:			
13			
14			
15			
16			
Half-year Break			
17		Terminology and background of Cryptography	Write a program to shift each character one state in input string
18		Substitution ciphers	Write a program to calculating the number of repetition to each character in each word in input string
19		Substitution ciphers	Write a program do the job of program 2 with replacing the characters with most iteration in input string
20		Transposition ciphers	Write a program do the job of program 2 then sorting the word with higher repeated character in input string
21		Transposition ciphers	Write a program to shift each character one state in input string
22		Characteristics of good cipher	Write a program to reversing the character in each word in input string
23		Symmetric and asymmetric encryption systems	Write a program adds number K with each character in input string and print it ,then returning it to the source form Hint: process the space
24		Cryptanalysis	Design general form for the ciphering algorithm
25		Cryptanalysis	Design Caser ciphering program
26		Data encryption standard	Design Accumulative ciphering program
27		AES encryption	Design Vernam ciphering program
28		Public key encryption	Design Book ciphering program
29		RSA encryption	Design Columnar ciphering program
30		Digital signatures	Discussion the final project
31		Digital signatures	
32		Examination	

Instructor Signature:

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