Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF 524	Cryptography With Public Key	2	3	0	0	3	6

Prerequisites	
Admission Requirements	

Language of Instruction	English	
Course Type	Elective	
Course Level	Masters Degree	
Objective	This course introduces modern cryptography (asymmetric encryption ie public key encryption) techniques their cryptanalysis and their use. Computer programs of these encryption techniques are written through homework and important articles within the scope of the course are examined.	
Content	Week 1: Introduction to number theory. Week 2: Divisibility properties and related theorems. Week 3: Theorems of number theory. Week 4: Theorems of number theory. Week 5: Theorems of number theory. Week 6: Theorems of number theory. Week 7: Diffie-Helman's article (1976). Week 8: RSA's article (1978). Week 9: Theorems of RSA algorithm. Week 10: Application of RSA algorithm. Week 11: Application of RSA algorithms. Week 12: Articles on faster RSA algorithms. Week 13: PGP (Pretty Good Privacy) Week 14: Applications on public key cryptography (SSL).	
References	Ders kapsamındaki orijinal makaleler. Singh, S., "Kod Kitabı", Klan Yayınları, 2004.	

Theory Topics

Week	Weekly Contents		
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