COURSE DESCRIPTION

COURSE NAME SECURITY OF WIRELESS NETWORKS AND MOBILE DEVICES CODE: MSI2103								
STUDY YEAR MASTER		ER II SEMESTER I		COURSE STATUS (C-compulsory/OP-optional/F-facultative)				
HOURS PER WE	EK HC Pr. SE	TOTAL DURS PER EMESTER	TOTAL HOURS INDIVIDUAL ACTIVITY	CREDITS	EVALUATION (P-during the semester, C-oral examination, E-written examination, M-mixed)		TEACHING LANGUAGE	
2 2 -	-	56	184	184 8		М	English	
COURSE TEACHER	T FIC DEGREE, FIF TENE	EGREE, FIRST NAME, LAST NAME FACULTY/DE Department of Co		ARTMENT mputer Science				
PREVIOUS COURSES REQUESTED								
OBJECTIVES	This course will present the most important mechanisms dedicated to protect data integrity and confidentiality, access control, authentication, user privacy, quality and continuity of service, in wireless and mobile environments.							
DESCRIPTION DESCRIPTION OF SEMINARY /	 Wireless Technology Overview Risks and Threats of Wireless Security under Resource Constraints (bandwidth, memory, computation, energy constraints) Intrusion and Anomaly Detection in Wireless Environments Key Management in Wireless Environments Privacy and Anonymity in Wireless Environments Public Key Infrastructure in Wireless Environments Authentication, Authorisation, and Access Control in Wireless Environments Standards in Wireless Security (Equivalent Privacy Standard (WEP), Extensible Authentication Protocol (EAP), Wi-Fi Protected Access (WPA, WPA2), IEEE 802.11i) Bluetooth Security RFID Security Secure Mobile Commerce Secure Wireless Multimedia Broadcast 							
LABORATORY	extend/improve them.							
TEACHING METHODS	On-line and blackboard presentation.							
BIBLIOGRAPHY (SELECTION)	 S. Gritzalis, T. Karygiannis, C. Skianis (editors). Security and Privacy in Mobile and Wireless Networking. Troubador Publishing, 2009 N. Sklavos, X. Zhang . Wireless Security and Cryptography: Specifications and Implementations. CRC Press, 2007 C. Gehrmann, J. Persson, B. Smeets. Bluetooth security. Artech House, 2004 P.H. Cole, D.C. Ranasinghe (editors). Networked RFID systems and lightweight cryptography: raising barriers to product counterfeiting. Springer-Verlag, 2008 NIST Federal Information Processing Standards conference and journal articles 							
EVALUATION		conditior	s presentation c	f a report on a se	elected top	ic (P), midterm exam (ME), final exam ((FE)	
		criter	P, ME, FE ≥	5				
	evaluation methods presentation of			a report on a selected topic (P), midterm exam (ME), final exam (FE)				
	final result - formula 0.4P+0.3ME+0.3FE							