

## COURSE DESCRIPTION

COURSE NAME		<b>SECURITY OF ELECTRONIC COMMERCE</b>					CODE: MSI2206	
STUDY YEAR	MASTER II	SEMESTER	2	COURSE STATUS ( <b>C</b> -compulsory/ <b>OP</b> -optional/ <b>F</b> -facultative)			C	
HOURS PER WEEK				TOTAL HOURS PER SEMESTER	TOTAL HOURS INDIVIDUAL ACTIVITY	CREDITS	EVALUATION ( <b>P</b> -during the semester, <b>C</b> -oral examination, <b>E</b> -written examination, <b>M</b> -mixed)	TEACHING LANGUAGE
C	S	L	Pr.	56	184	8	M	English
2	-	2	-					
COURSE TEACHER		TEACHING AND SCIENTIFIC DEGREE, FIRST NAME, LAST NAME				DEPARTMENT		
		PROF. DR. VICTOR PATRICIU				Computer Science		
PREVIOUS COURSES REQUESTED		Facultative: Applied Cryptography						
OBJECTIVES		This course introduces students to the challenge of electronic commerce and Business on Internet, vulnerabilities and defenses.						
GENERAL DESCRIPTION		The course covers the following topics: 1. digital signatures and certificates and PKI 2. smart-cards, biometrics and payment systems 3. e-commerce security 4. reglementations in e-commerce						
DESCRIPTION OF SEMINARY / LABORATORY WORKS		PGP, cryptographic libraries (BSAFE, Open SSL, MS CAPI/CAPICOM, Cryptolib, Java Cryptography), SET (Secure Electronic Transaction), iKP (Internet Keyed Payments), eCash, NetCash. Students will also be involved in writing a Java Card application for a dual digital signature under SET.						
TEACHING METHODS		On-line and blackboard presentation.						
BIBLIOGRAPHY (SELECTION)		<ol style="list-style-type: none"> <li>1. V. Patriciu, I. Bica, M. Pietrosanu, I. Priescu, Semnaturi electronice si securitate informatica, Ed. All, 2005.</li> <li>2. V. Patriciu, I. Bica, M. Pietrosanu, C. Vaduva. N. Voicu, Securitatea comertului electronic, Ed. All, 2001.</li> <li>3. V. Patriciu, S. Patriciu, I. Vasii, Internetul si dreptul, Ed. All, 1999.</li> <li>4. Mostafa Hasem Sherif, Protocole for Secure Electronic Commerce, CRC Press, 2004.</li> <li>5. C. Radu, Implementing Electronic Card Payment Systems, Artech House Computer Security Series, 2003.</li> <li>6. W. Stallng, Cryptography &amp; Network Security, Prentice Hall, 2001.</li> <li>7. D. O'Mahony, Electronic Payment Systems for E-Commerce, Artech House, 2001.</li> <li>8. R. Housley, Planning for PKI, John Wiley, 2000.</li> <li>9. W. Ford, Secure Electronic Commerce, Prentice Hall, 2001.</li> </ol>						
EVALUATION		conditions						
		criteria						
		evaluation methods		7 small projects and a final exam.				
		final result - formula		50% from the projects + 50% from the final exam.				