

# Syllabus

## 1. Program information

1.1. Institution	ACADEMY OF ECONOMIC STUDIES
1.2. Faculty	Economic Cybernetics, Statistics and Informatics
1.3. Departments	(Department) INFORMATICA SI CIBERNETICA ECONOMICA
1.4. Field of study	Economic Informatics
1.5. Cycle studies	Master Studies
1.6. Education type	Full-time
1.7. Study program	IT&C Security
1.8. Language study	English
1.9. Academic year	2016-2017

## 2. Course information

2.1. Name	<b>E-Commerce and E-Payment Security</b>								
2.2. Code	<b>16.0241IF1.2-0005</b>								
2.3. Year of studies	<b>1</b>	2.4. Semester	<b>2</b>	2.5. Assessment type	<b>Exam</b>	2.6. Course type	<b>O</b>	2.7. Number of ECTS	<b>4</b>
2.8. Instructors									

## 3. Total estimated time

3.1. Number of weeks	14.00		
3.2. Number of hours per week	2.00	of which	
		C(C)	1.00
		S(S)	1.00
3.3. Total hours from curriculum	28.00	of which	
		C(C)	14.00
		S(S)	14.00
3.4. Total hours of study per semester (ECTS*25)	100.00		
3.5. Total hours of individual study	72.00		
<i>Time distribution for individual study</i>			
Study the textbook, course support, bibliography and notes			
Further reading in the library, on the online platforms and field			
Preparing seminars, labs, homework, portfolios and essays			
Tutoring			
Examinations			
Other activities			

## 4. Prerequisites

4.1. About curriculum	Electronic Signature, Security Standards and Protocols, Computer Networks Security, Secure Applications Programming, Web Security
4.2. About skills	Java SE programming

## 5. Requirements

C(C)	Course lectures take place in rooms with multimedia teaching equipment.
S(S)	Laboratories are held in rooms that have PCs with Internet access. The development environment used is Microsoft Visual Studio 2010 or 2012, Ubuntu within virtual machines with GCC, Java plus necessary tools.

## 6. Skills covered

	C4	Scientific research and designing of IT security solutions for the entire range and complexity of software architectures
	CT2	Planning and organization of human resources within a team or organization, in terms of awareness of the responsibility for professional results

## 7. Course objectives

7.1. General objective	Presentation and implementation of e-payment systems.
7.2. Specific objectives	Transfer tehnologic pentru: -dezvoltarea aplicatiilor Java card -utilizarea aplicatiilor Java card pentru exemplificarea sistemelor de plati bazate pe card-uri

## 8. Course contents

8.1. C(C)		Teaching methods	Advices
1	Reasons for using e-payment systems.		
2	Banking cards based systems: iKP (i Key Protocol), SET		
3	Electronic cheques based systems: FSTC initiatives, NetCheque		
4	On-line and off-line payment systems with electronic money: DigiCash eCash, NetCash, CAFE, CEPS (Common Electronic Purse Specifications)		
<p><b>Bibliography</b></p> <ul style="list-style-type: none"> <li>- Patriciu V., Bica I., Pietrosanu M, Securitatea comertului electronic, All, 2001</li> <li>- Patriciu V., Patriciu S., Vasiu I., Internet-ul și dreptul, All, 1999</li> <li>- Housley R., Planning for PKI, John Wiley, 2000</li> <li>- Ford W., Secure Electronic Commerce, Prentice Hall, 2001</li> <li>- Fausse A., La signature électronique, Dunod , 2001</li> </ul>			
8.2. S(S)		Teaching methods	Advices
1	Reasons for using e-payment systems.		
2	Banking cards based systems: iKP (i Key Protocol), SET		
3	Electronic cheques based systems: FSTC initiatives, NetCheque		
4	On-line and off-line payment systems with electronic money: DigiCash eCash, NetCash, CAFE, CEPS (Common Electronic Purse Specifications)		
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## 9. Course contents corroboration with the demands of epistemic community representatives, professional associations and representative employers

Taking into account the best practices from IT&C field applied by big companies such as: Intel, Oracle, Microsoft, IBM, HP and professional consortiums such as: Apache, Red Hat, ISO/IEC.

## 10. Assessment

Activity	Assessment criteria	Assessment methods	Percentage in the final grade
10.1. S(S)		Applied activities, practical or project certificates/laboratory/tests, tests during the module, auditing tests	40.00
10.2. Final assessment		Final examination	60.00
10.3. Grading scale	Whole notes 1-10		
10.4. Minimum performance standard	Knowledge required: building Java host application and Java card cardlet plus the set, 3d secure and eCash payment systems. The point granted by default is included in the weights assigned to the types of assessments.		

Completion date,  
07/10/2016

Instructors,

Approval date of department

Director of department,