

# 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>Cryptographic Keys Management</b>								
2.2. Code	<b>16.0241IF1.2-0007</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>A</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	1.00	of which	
		C(C)	1.00
3.3. Total hours from curriculum	14.00	of which	
		C(C)	14.00
3.4. Total hours of study per semester (ECTS*25)	100.00		
3.5. Total hours of individual study	86.00		
<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	The course assumes no prior lectures from the curriculum.
4.2. About skills	The course assumes no prior competences.

## 5. Requirements

C(C)	Course lectures take place in rooms with multimedia teaching equipment.
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## 6. Skills covered

	C6	Updating the scientific research methods and techniques in computer science applied in economy
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## 7. Course objectives

7.1. General objective	Presentation of some mechanisms, technologies and techniques for cryptographic keys management and PKIs - Public Key Infrastructures.
7.2. Specific objectives	-

## 8. Course contents

8.1. C(C)		Teaching methods	Advices
1	1. Cryptographic keys management systems		
2	2. Certificate Authorities and PKI - Public Keys Infrastructures		
3	3. Configuring CA and PKI in EJBCA		
4	4. Bridge CA and Third-party trusted Authorities		

### ***Bibliography***

- Housley R., Planning for PKI, Hardcopy-book, John Wiley, 2000, Statele Unite ale Americii
- Patriciu V., Pietrosanu M., Bica I., Cristea C, Securitatea informatică în UNIX și INTERNET, Carte, Tehnica, 1998, România

## 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. C(C)	Concepts achievement and testing the practical skills for PKI configuration.	Quizz test in e-learning platform	40.00
10.2. Final assessment	Concepts achievement and testing the practical skills for PKI configuration.	Quizz test in e-learning platform	60.00
10.3. Grading scale	Whole notes 1-10		
10.4. Minimum performance standard	Knowledge required: practical configuration of an PKI in Linux and Windows plus configuration items for EJBCA. The point granted by default is included in the weights assigned to the types of assessments.		

Completion date,

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07/10/2016

Instructors,

Approval date of department

Director of department,