Faculty of Fundamental Problems of Technology

COURSE CARD

Name in polish	:	**Procedury i Bezpieczeństwo Operacyjne**
Name in english	:	**Compliance and Operational Security**
Field of study	:	Computer Science
Specialty (if applicable)	:	
Undergraduate degree and form of	:	masters, stationary
Type of course	:	compulsory
Course code	:	E2_BI03
Group rate	:	Yes

	Lectures	Exercides	Laboratory	Project	Seminar
Number of classes held in schools (ZZU)	30	30			
The total number of hours of student workload (CNPS)	60	60			
Assesment	exam				
For a group of courses final course mark	X				
Number of ECTS credits	2	2			
including the number of points corresponding to the classes of practical (P)		2			
including the number of points corresponding occupations requiring direct contact (BK)	2	2			

PREREQUISITES FOR KNOWLEDGE, SKILLS AND OTHER POWERS

Knows the basics of cryptology and computer security.

COURSE OBJECTIVES

C1 Presentation of the principles of a design and maintenance of an information security system in an enterprise or an institution.

C2 Teaching students the rules of creating documentation for an information security system.

COURSE LEARNING OUTCOMES

The scope of the student's knowledge:

W1 Knows rules of risk analysis

W2 Knows legal, economical, and social aspects influencing security policies

W3 Knows vital normative and legal requirements for information security

The student skills:

U1 Is able to further develop her/his competences by reading standards, best practices and legal acts.

U2 Is able to correctly estimate impact and costs of security solutions proposed.

U3 Is able to see limitations of the methodology of information security management.

The student's social competence:

K1 Has competences in the design and implementation of security training.

K2 Can use project management techniques with respect to duties of security administrators.

K3 Able to perform tasks in a pragmatic and creative way.

COURSE CONTENT

Type of classes - lectures		
Wy1	Risk related concepts	5h
Wy2	Risk mitigation strategies	4h
Wy3	Incident response procedures	6h
Wy4	Security awareness	3h
Wy5	Business continuity	3h
Wy6	Environmental controls	2h
Wy7	Disaster Recovery	6h
Wy8	The AIC (Availability, Integrity, Confidentiality) triad	1h
Type of classes - exercises		
Ćw1	Risk analysis.	7h
Ćw2	Security policy, security plan and documented operating procedures.	11h
Ćw3	Incident response procedures.	6h
Ćw4	Contingency plan.	6h

Applied learning tools

1. Traditional lecture
2. Multimedia lecture
3. Solving tasks and problems
4. Consultation
5. Self-study students

EVALUATION OF THE EFFECTS OF EDUCATION ACHIEVEMENTS		
Value	Number of training effect	Way to evaluate the effect of education
F1	W1-W3, K1-K3	evaluation of student's answers given in the examination form
F2	U1-U3, K1-K3	evaluation of the documentation produced by the examined student
P=40%*F1+60%*F2		

BASIC AND ADDITIONAL READING

1. Krzysztof Liderman, Podręcznik administratora bezpieczeństwa teleinformatycznego, Wydawnictwo MIKOM, ISBN 8372793778
2. NIST Special Publication 800-53, Recommended Security Controls for Federal Information Systems and Organizations
3. NIST Special Publication 800-34, Contingency Planning Guide for Federal Information Systems
4. NIST Special Publication 800-18, Guide for Developing Security Plans for Federal Information Systems
5. ISO/IEC 27001 Information technology – Security techniques – Information security management systems – Requirements
6. ISO/IEC 27002 Information technology - Security techniques - Code of practice for information security management
7. ISO/IEC 27005 Information technology - Security techniques - Information security risk management
8. RFC 3227, Guidelines for Evidence Collection and Archiving

SUPERVISOR OF COURSE

dr Przemysław Kubiak

RELATIONSHIP MATRIX EFFECTS OF EDUCATION FOR THE COURSE
Compliance and Operational Security
WITH EFFECTS OF EDUCATION ON THE DIRECTION OF COMPUTER SCIENCE

Course training effect	Reference to the effect of the learning outcomes defined for the field of study and specialization (if applicable)	Objectives of the course**	The contents of the course**	Number of teaching tools**
W1	K2_W01 K2_W06 K2_W08 K2_W12_S2BKM K2_W13_S2BKM	C1	Wy1-Wy8	1 2 4 5
W2	K2_W08 K2_W10 K2_W12_S2BKM	C1	Wy1-Wy8	1 2 4 5
W3	K2_W04 K2_W07 K2_W10 K2_W12_S2BKM	C1	Wy1-Wy8	1 2 4 5
U1	K2_U01 K2_U05 K2_U16 K2_U23_S2BKM K2_U24_S2BKM	C2	Ćw1-Ćw4	3 4 5
U2	K2_U14 K2_U17 K2_U20 K2_U23_S2BKM K2_U24_S2BKM	C2	Ćw1-Ćw4	3 4 5
U3	K2_U16 K2_U21 K2_U23_S2BKM K2_U24_S2BKM	C2	Ćw1-Ćw4	3 4 5
K1	K2_K02 K2_K14 K2_K18	C1 C2	Wy1-Wy8 Ćw1-Ćw4	1 2 3 4 5
K2	K2_K03 K2_K06 K2_K09 K2_K18	C1 C2	Wy1-Wy8 Ćw1-Ćw4	1 2 3 4 5
K3	K2_K12 K2_K13 K2_K18	C1 C2	Wy1-Wy8 Ćw1-Ćw4	1 2 3 4 5