COURSE SYLLABUS

Course code: 1032.4.BN1.D114.ARY

Course title in Polish: Analiza ryzyka

Course title in English: Risk analysis

1. Position of the course within the degree programme

1.1. Degree programme	**National Security**
1.2. Mode of study	Full-time/part-time studies
1.3. Level of study	Bachelor's studies
1.4. Study profile	General academic
1.5. Syllabus prepared by	PhD Rafał Miernik
1.6. Contact	inb@ujk.edu.pl

2. General course information

2.1. Language of instruction	Polish/English
2.2. Prerequisites	None

3. Detailed course information

3.1. Type of class	Lectures: Classes conducted using distance learning technologies. Practical classes: In-person practical classes.
3.2. Teaching location	Classes held at UJK teaching facilities
3.3. Form of assessment	Graded course credit
3.4. Teaching methods	Lecture: Expository teaching methods, problem-based lectures, explanations, presentations. Practical classes: Case studies, discussion.
3.5.a. Required reading	1. Smagowicz J., Model dojrzałości zarządzania ryzykiem w publicznym zarządzaniu kryzysowym, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa 2021. 2. Smolarkiewicz M. M., O teorii ryzyka w bezpieczeństwie, Akademia Pożarnicza/SGSP, Warszawa 2025. 3. Kaczmarek T, Ryzyko i zarządzanie ryzykiem: ujęcie interdyscyplinarne, Warszawa: Difin, Warszawa 2010. 4. Pamięć Przyszłości. Analiza ryzyka dla zarządzania kryzysowego, red. Abgarowicz G., Wydawnictwo Centrum Naukowo-Badawczego Ochrony Przeciwpożarowej Państwowego Instytutu Badawczego, Józefów 2015. 5. Zarządzanie ryzykiem. Przegląd wybranych metodyk, Wydawnictwo Centrum Naukowo-Badawczego Ochrony Przeciwpożarowej Państwowego Instytutu Badawczego, Józefów 2015.
3.5.b. Supplementary reading	1. Zarządzanie ryzykiem, red. Jajuga K., Wydawnictwo Naukowe PWN, Warszawa 2009. 2. Daniluk P. Wyligała H., Analiza zagożeń sektorowych dla bezpieczeństwa, Difin, Warszawa 2021. 3. Risk Management of National Security Threats, Knudsen G. (edt.), Nova Science Publishers Inc., Hauppauge 2013.

4. Course objectives, content and learning outcomes

4.1. Course objectives (lectures and practical classes)

- C1. Introduce risk as a category in security studies, trace its evolution and explain its contemporary meaning; demonstrate the need for threat and risk analysis; present the role of risk analysis in crisis management and its basic principles and tools.
- C2. Develop the ability to apply risk analysis to the study of security and to rational decision-making; emphasise the need for further professional development and the analytical tools required.
- C3. Develop independent judgement and awareness of professional and ethical conduct in public activity; accurately assess threats to life, property and the environment and respond appropriately in crises.

4.2. Course content (by teaching format)

Lectures (including classes delivered through distance-learning methods and technologies)

1. Risk as a concept: uncertainty, hazard and risk – their interrelationships.
2. Contemporary understandings and types of risk, basic terminology and risk in crisis management.
3. Risk analysis methodology: quantitative and qualitative methods; social acceptance of risk and the ALARP principle.
4. Selected methods (SWIFT, scenario analysis, business impact analysis, root cause analysis, cause-and-consequence analysis, human reliability analysis, bow-tie analysis, consequence/probability matrix); presenting risk analysis results.

Practical classes

Case studies using risk analysis methods: SWIFT, scenario analysis, business impact analysis, root cause analysis, cause-and-consequence analysis, human reliability analysis, bow-tie analysis and consequence/probability matrix; presentation of findings.

4.3. Learning outcomes achieved through the course

Course learning outcomes (code)	Upon successful completion of the course, the student:	Corresponding to
	Knowledge:	
W01	Has advanced knowledge of the sources, structure and potential consequences of processes and phenomena threatening life, health, property and the environment; knows the elements and logic of risk management in crisis management and understands the importance of public acceptance of risk.	BN1A_W06
W02	Has advanced knowledge of responses and behaviours of individuals, social groups and institutions in threatening situations through the study of risk analysis.	BN1A_W09
W03	Understands the need to estimate the severity of threats and its usefulness in security research.	BN1A_W11
	Skills:	

U01	Can apply risk analysis to investigating processes and phenomena in security; recognises the need for continuous improvement of analytical techniques and knowledge.	BN1A_U03
U02	Can apply risk analysis to rationalise security decisions and assess their implications for crisis management.	BN1A_U05
U03	Can interpret risk analysis results, apply the ALARP principle and use foresight methods to study national security.	BN1A_U07

Social competences:

K01	Recognises the importance of professional and ethical conduct in public affairs, particularly in security.	BN1A_K04
K02	Knows and applies appropriate behavioural patterns during threats and understands the structure of various crisis situations.	BN1A_K05
K03	Can use analytical tools to develop independent viewpoints and skills and formulate critical assessments.	BN1A_K06

4.4. Methods for assessing achievement of course learning outcomes

Assessment method (+/-)

Course learning outcomes (code)	Oral/written examination	Test	Project	Class participation	Independent study	Group work	Other (specify)

Teaching format

1: / 2:	W	C	...	W	C	...	W	C	...	W	C	...	W	C	...	W	C	...	W	C	...
W01				+				+			+										
W02				+				+			+										
W03				+				+			+										
U01				+				+			+										
U02				+				+			+										
U03				+							+										
K01											+						+				
K02											+						+				
K03								+			+										

Note: 1 – teaching format; 2 – learning outcomes

4.5. Criteria for assessing achievement of learning outcomes

Teaching format:

LECTURES (W) (including distance-learning classes)

Grade	Assessment criteria
3,0	Answered the assigned questions at the 50–59% level under the established marking scheme.
3,5	Answered the assigned questions at the 60–69% level under the established marking scheme.
4,0	Answered the assigned questions at the 70–79% level under the established marking scheme.
4,5	Answered the assigned questions at the 80–89% level under the established marking scheme.
5,0	Answered the assigned questions at the 90% or above level under the established marking scheme.

Teaching format:

PRACTICAL CLASSES (C)

Grade	Assessment criteria
3,0	Combined assessment of projects (tasks) and class participation: 50–59% under the established marking scheme.
3,5	Combined assessment of projects (tasks) and class participation: 60–69% under the established marking scheme.
4,0	Combined assessment of projects (tasks) and class participation: 70–79% under the established marking scheme.
4,5	Combined assessment of projects (tasks) and class participation: 80–89% under the established marking scheme.
5,0	Combined assessment of projects (tasks) and class participation: 90% or above under the established marking scheme.

5. ECTS credit allocation – student workload

Category	Student workload: full-time	Student workload: part-time
TEACHER-LED INSTRUCTION (CONTACT HOURS)	**30**	**20**
Attendance at practical classes	15	10
Other (lectures delivered using distance-learning methods and technologies)	15	10
INDEPENDENT STUDENT WORK (NON-CONTACT HOURS)	**20**	**30**
Preparation for practical classes	8	12
Preparation for examination/test	6	12
Gathering project materials and online research	6	6
TOTAL HOURS	**50**	**50**
ECTS CREDITS for the course	**2**	**2**

Accepted for delivery (date and legible signatures of course instructors in the academic year)

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