Subject	**Security of Critical National Infrastructure**			
	Type	Semester	ECTS	Code
	Mandatory (M)	V	6	
Lecturer of Subject	n.a			
Assistant	n.a			
Tutor				

Aim and Objective	**Objectives of the course:** - Understanding the Concept of Critical Infrastructure: Describing the concept of critical infrastructure and identifying key sectors that are crucial for national security. - Analysis of Risks and Threats: Identifying and analyzing risks and threats to critical infrastructure, including threats from cyber attacks, natural events, and other potential threats. - Critical National Infrastructure (CNI) is the backbone of a country's security and economy. - The goal of this course is to provide a general overview of Critical National Infrastructure. - Other objectives of this course also include the identification and analysis of critical infrastructure systems, including security and threat assessments, analysis of the level of threats, as well as the evaluation and review of security measures aimed at protecting critical national infrastructure. **Course Objectives:** Overview of Knowledge about Critical National Infrastructure: - Provide detailed knowledge about Critical National Infrastructure (CNI) as a key element in national security and economic stability. - Identification and Analysis of Critical National Infrastructure Systems: - Develop skills in identifying and analyzing critical infrastructure systems, understanding their importance in the national security structure. - Security Assessments against Threats: - Assess security against threats to identify vulnerabilities and potential threats to critical infrastructure, with the aim of increasing resilience and preparedness. - Threat Level Analysis around Critical National Infrastructure: - Categorize different threats to critical infrastructure, taking into account seriousness and potential impact on national security. - Evaluation and Review of Security Measures: - Protect, assess, and review existing security measures for implementation in safeguarding critical national infrastructures.

Learning outcomes	**After successful completion of this course, students will be able to:** Upon successful completion of this course, students will be able to: - Identify critical infrastructure, protection, and resilience in the context of National Infrastructure Protection. - Evaluate the National Critical Infrastructure Protection Plan. - Have knowledge of the key concepts of critical societal infrastructures, the systems of systems encompassing them, and issues involved in managing these systems. - Analyze critical infrastructure assets and their importance to national security. - Recognize and describe the processes that support the security of critical infrastructure.	
Content	**Course plan**	**Content**
	- Introduction - Syllabus Overview: content of the subject, methods, organization, and course requirements.	1
	- Critical Infrastructure and Key Resources	2
	- Government Properties	3
	- Water and Energy Supply Infrastructure	4
	- Health and Public Health Infrastructure	5
	- Transportation and Manufacturing Infrastructure	6
	- Security Services Infrastructure	7
	- Economic Sector, Goods, and Financial Services	8
	- Communication and IT Infrastructure	9
	- Food and Agriculture Infrastructure	10
	- Critical Infrastructure Protection Process	11
	- Protection of Critical Infrastructure in Kosovo Course	12
	- Recapitulation/Review and Reflection	13
	- Essay Presentation, Discussion Test	14
	- Final Exam	
Activity / ECTS workload	**Aktivity**	**Weight (%)**
	29. Interactive lectures	50%
	30. Seminars+exercises (research paper)	30%
	31. Case studies	10%
	32. Simulim (role play)	5%

	33. Study visit			5%
Assessment Methods	**Assessment activity**	**Number**	**Week**	**Weight (%)**
	9. Participation	1	2-15	50%
	20. Presentations of scientific/professional articles	1	2-15	10%
	21. Participation in lectures	15	1-15	40%
Sources and tools of concretization	**Means**			**Number**
	30. Classes			1
	31. Laborator			n/a
	32. Moodle			1
	33. Softuer MATLAB/SPSS/SIMULINK			n/a
	34. Projektor			1
ECTS workload	**Activity type**		**Week**	**Total load**
	41. Lectures		2	30
	42. Seminars		1	15
	43. Consultations		0.5	7
	44. Research paper		n.a	21
	45. Independent learning		2-3	75
	46. Exams		1	2
	47. Total			

	Basic literature:. - Critical Infrastructure Protection in Homeland Security: Defending a Networked Nation by Ted G. Lewis | Nov 26, 2019 - Homeland Security and Critical Infrastructure Protection (Praeger Security International) - Part of: Praeger Security International (57 books) | by Ryan K. Baggett and Brian K. Simpkins | Jul 11, 2018 - Lewis, Ted G. (ed.), Critical Infrastructure Protection in Homeland Security: Defending a Networked Nation, Second Edition, John Wiley & Sons, Inc., 2015. - Amoroso, Edward, Cyber Attacks: Protecting National Infrastructure, Elsevier Inc. 2011 - Clarke, Richard and Knake, Robert. Cyber War: The Next Threat To National Security And What To Do About It, HarperCollins Publishers, 2010 - Collins, Pamela A. and Baggett, Ryan K., Homeland Security and Critical Infrastructure Protection, Praeger Security International, 2009. - Brown, Kathi Ann. Critical Path: A Brief History of Critical Infrastructure Protection in the United States, Spectrum Publishing Group, 2006. - Critical Infrastructure Protection in Homeland Security: Defending a Networked Nation by Ted G. Lewis | Apr 21, 2006 **Articles and Documents:** Documents: - Draft Law on Critical Infrastructure / Link https://kryeministri.rks-gov.net/wp-content/uploads/2022/07/PROJEKTLIGJI_PER_IFRASTRUKTUREN_KRITIKE-1.pdf - State Strategy for Cybersecurity and Action Plan 2016–2019, Ministry of Internal Affairs, Pristina, 2015. Link http://www.kryeministriks.net/repository/docs/Strategjia_Shteterore_per_Sigurine_Kibernetike_dhe_Plani_i_Veprimit_2016-2019_per_publikim_1202.pdf - Critical Infrastructure Resource Center: Link http://training.fema.gov/EMIWeb/IS/IS860b/CIRC/index.htm
Literatura/Referencat	- U.S. Department of Homeland Security Office of Infrastructure Protection Link http://www.dhs.gov/xabout/structure/gc_1185203138955.shtm - U.S. Department of Homeland Security Daily Open Source Infrastructure Report: Link http://www.dhs.gov/files/programs/editorial_0542.shtm - Emergency Management Institute Independent Study Program: Link http://training.fema.gov/IS/ - Homeland Security Digital Library: Link http://www.hsdl.org/ - The CIP Report: Link http://cip.gmu.edu/the-cip-report - DHS Website: Critical Infrastructure Sectors Website. Link . http://www.dhs.gov/criticalinfrastructure-sectors
Contact	
Note:	- Assessment in this course, as explained above, consists of 3 components: individual research work, presentation of articles and other assignments distributed during the week, and physical and active participation in lectures. - Students who have 3 absences during the semester, the maximum grade they can receive in this course is 7 (seven). Meanwhile, those who have 4 or more absences during the semester, the maximum grade they can receive in this course is 6 (six). - The course instructor reserves the right to make changes and adaptations during the semester in order to achieve the course objectives more effectively. Of course, students will be notified in advance of these changes.