Меѓународен Универзитет Визион - International Vision University
Universiteti Ndërkombëtar Vizion - Uluslararası Vizyon Üniversitesi

Adres: Ul. Major C. Filiposki No.1, Gostivar – Kuzey Makedonya
tel: +389 42 222 325, www.vizyon.edu.mk, info@vizyon.edu.mk

SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
NETWORK SECURITY	**CEN-3011**	**7**	**150**	**5**

Prerequisite(s)	None

Course Language	Macedonian, Turkish, English
Course Type	Required
Course Level	First Cycle
Course Lecturer	
Course Assistants	
Classroom	
Extra-Curricular Office Hours and Location	

Course Objectives	The aim of this course is to cover the principles of security in computer systems and networks, where the student will be introduced to various techniques of attack and defense.
Course Learning Outcomes	In this course, it is aimed to understand the data security vulnerabilities/threats in information systems and to raise awareness about the precautions to be taken against cyber attacks. Cryptography, network security, malware analysis and detection, forensic computing, blockchain security and applications, penetration tests, privacy protected data. management, cyber security law, cyber security planning and management are the basic course contents that make up the curriculum.
Course Contents	To acquaint students with major communication protocols, their features, details, and functionality and to introduce students to the literature and terminology,

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Control of access to information, Principle of Minimum Privileges	Related Chapters of Course Sources
2	Network traffic analysis	Related Chapters of Course Sources
3	Network access control	Related Chapters of Course Sources
4	Authorization and authentication	Related Chapters of Course Sources
5	Application layer protocols	Related Chapters of Course Sources
6	Transport layer protocols	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Network layer protocols	Related Chapters of Course Sources
9	Data link layer protocols	Related Chapters of Course Sources
10	Firewalls	Related Chapters of Course Sources
11	IDS	Related Chapters of Course Sources
12	IPS	Related Chapters of Course Sources
13	Web security (scripting, threats and defense)	Related Chapters of Course Sources
14	Public key infrastructure	Related Chapters of Course Sources
15	Final Exam	Related Chapters of Course Sources

ECTS / WORKLOAD TABLE

Presentation / Seminar			
Hours for off-the-classroom study (Pre-study, practice)	14	3	42
Midterm Exam	1	12	12
Final examination	1	14	14
Total Work Load			
ECTS	**5**		

GENERAL PRINCIPLE RELATED WITH COURSE

Dear students,

You need to be included in the flow, please follow the course of learning and using that to achieve our success you deserve, you need to practice every day on topics that are covered by the course. It takes practice reading basic and auxiliary literature that is strictly recommended. You should visit classes course I need to make an effort to visit all the professors' lectures. Your activity on the session will be assessed by your professors and the Battle active participant in the discussions that will take place during the time. Students visiting lectures for all at the end if an additional 15 points.

SOURCES

COMPULSORY LITERATURE		
No	Name of the book	Author's Name, Publishing house, Publication Year
1	Bilgisayar Haberleşmesi ve Ağ Teknolojileri	Furkan Çontar , Kodlab Yayın , 2017
2		
3	Guide to Computer Network Security	Joseph Migga Kizza , Springer , 2008

ADDITIONAL LITERATURE		
No	Name of the book	Author's Name, Publishing house, Publication Year
1		
2		
3	Kablosuz Ağ Güvenliği	Besim Altınok , Abaküs, 2018

EVALUATION SYSTEM

Underlying the Assessment Studies	NUMBER	PERCENTAGE OF GRADE
Attendance/Participation	15	%10
Project / Event	1	%20
Mid-Term Exam	1	%35
Final Exam	1	%35
TOTAL	**17**	**%100**

ETHICAL CODE OF THE UNIVERSITY

In case students are cheating on exams or preparation the same, it is not making reference to the source to be used in studies, as for example in assignments, projects and presentation (plagiarism), in accordance with legislations by Ministry of Education and Science of the Republic of Macedonia and İnternational Vision University, apply relevant disciplinary rules. İnternational Vision University students are expected never attempts in this kind of behavior.