General	Title and code of	ETR 620 Electronic defense syste	em- 8 ECTS credits	
information	subject, number of			
	credits			
	Department	Physics and Electronics		
	Program	Master		
	Academic semester	2021 Fall		
	Lecturer	PhD Associate professor Hasanov Elchin		
	E-mail:	elgafgas@vahoo.com		
	Phone number:	+994 50 5287740		
	Lecture	11 Mehseti Street, AZ1096 Baku, Azerbaijan (Neftchilar		
	room/Schedule	campus), room		
		1 //		
	Consultations	II, 15:00 – 16:00		
	Office hours	Sunday 10-00		
Prerequisites				
Course	English			
language				
Type of the subject	Major			
Textbooks	Textbooks: Hugh D.You	ing, Roger A.Freedman Unit	versity Physics. Pearson	
and	International Edition.P.15	551		
additional	1. J. Beresford ITP 325	: Ethical Hacking and Systems Defer	nse 2018	
materials	2. Filippo Herri Intr	oduction to Electronic Defense Sy	ystems 3rd Edition/ 2020	
Teaching	Lecture	_	+	
methods	Group discussions at sem	iinars	+	
Assessment	Components	Date/ Deadline	Percent (%)	
	1 ests	During the semester	5	
	Active participation	At each lesson	10	
	Quizzes	During the semester	15	
	Attendance Midtown ovom	During the semester	3	
	Final avem		<u> </u>	
	Final Exam		55 100	
Course	Protection angineering of	prearned with the design and oner		
description	of "protection schemes"	sicemed with the design and opera	ation	
description	- Protection schemes are st	pecialized control systems that mo	pnitor	
	the power system, detectin	g faults or abnormal conditions ar	nd	
	then initiate correct action.			
	- In this course the power s	system is considered as all the plan	nt and	
	equipment necessary to get	nerate, transmit, distribute and uti	lize	
	the electric power.			
	The principal electrical sys	stem faults are short circuits and o	verloads.	
	Short circuits may be cause	ed in many ways, including failure	e of insulation	
	due to excessive heat or moisture, mechanical damage to electrical			
	distribution equipment, and failure of utilization equipment as a result of			
	overloading or other abuse	:		
Course	The course gives the stu	ident basic knowledge in radio	electronics. The system	
Course	The course gives the ste	ident basic knowledge in fadio	ciccuonics. The system	

Learn	ling mes	communication systems. The objectives of the course is that the student will learn operation principles of radio systems and their fundamental limitation Short circuits may occur between two-phase conductors, between all phases of a poly-phase system, or between one or more phase conductors and ground. The short circuit may be solid (or bolted) or welded, in which case he short circuit is permanent and has relatively low impedance. explain the principles of radio transmission and reception explain the existing physical and technical limitations of a radio system analyze the functionality of radio transmitters and receivers calculate basic radio specifications in terms of power, gain,		
		noise and frequency for basic modulation schemes - explain differences between traditional radio and today's digital		
		radio systems		
Rules (Educ policy behav	cational 7 and rior)	radio systems  Lesson organization General information on the subject will be provided for the students during lectures. Student's knowledge on the previous topics will be evaluated and new topic will be explained by mins of visual aids during seminars. Student's knowledge level will be tested oraly and in written forms before midterm and final exams. Submission of the individual works by the end of course is obligatory.  Attendance Participation of students at all classis is important. Students should inform dean's office about missing lessons for particular reasons (illness, family issues and etc.). Students, missing more than 25% of lessons, are not allowed to take the exam.  Tests Those students who have informed the teacher and the dean's office about missing the test in advance for particular reasons, are allowed to take the test next week.  Exams All the issues related to the participation and admission to the exam are regulated by the faculty dean. Topics of midterm and final exams are provided for the students before the exams. The questions of midterm exam are not repeated in the final exams is forbidden. Test papers of the student who do not follow these rules are canceled and the students are expelled from the test by getting 0 (zero). The rule for completing the course In accordance with the University rules the overall success rate to complete the course should be 60% or above. The students who failed the exam would be to take this subject next semester or next year. Rules of conduct for Students Disruption of the lesson and not following ethical norms during the lesson, as well as conduction of the discussions by the students without permission and using mobile phones is forbidden.		
Wee	Dates	Subject topics Textboo	ok/	
к 1	(planned 02/10/21	Electromagnetic interference	ents	
		Radio-frequency interference (RFI). Coupling (electronics).[1] p.709.Conducted interference	-741	

2	09/10/21	Viruses and antiviruses.	[1] p.750-773
		Computer viruses and their classification/ Methods for protecting against computer viruses.	[1] p-780- 795
		Problem solving	
3	16/10/21	Antivirus software	[1] p.800-815
		The main functions of antivirus programs. The main result of the work of antivirus programs	
		Problem solving.	
4	23/10/21	Basic methods of fighting computer viruses	[1] p.815-838
		The main characteristics of viruses. Rezident virus. Replikator. Stels viruses.	
		Problem solving.	
5	30/10/21	Visual virus statistics	
		Troyan viruses / Rutkit. SQL Slammer/Sapphire. Sasser. Conficker	
		Problem solving.	
6	06/11/21	Macro viruses and viruses in Word Excel	[1] p.846-872
		Macro.Word family. Methods of protection and macro viruses. Java viruses	
		Problem solving.	
7	13/11/21	File viruses	[1]p.881-
		Polimorf viruses. Network viruses. Satellite viruses.         Problem solving	900,
8	20/11/21	viruses and marketing	[1] p.957-
		Chief jurnal informations. Ad viruses.	984
		Problem solving	
		riootem solving.	

[1] p.916-947 [4]p. 73-96
[1] p.916-947 [4]p. 73-96
[4]p. 73-96
[4]p. 73-96
[4]p. 73-96
[1] p.1061- 1085
ctronic
[3]p.555-611
and
[1] page 9-6
[1] page 10- 6
[1] page 11-
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