			Lecture	Seminar	Lab.			
Course Code	Course Type	Regular Semester	(hours/we ek)	(hours/we ek)	(hours/we ek)	Credits	ECTS	
CMP 219	В	Fall	3.00	0.00	1.00	3.00	5.00	
	Lecturer	Ejona Bodo, Msc						
	Assistant							
Cour	rse language	Albanian						
	Course level	Bachelor						
	Description	In this course, the focus is on the basic techniques of the radio interface in all wireless systems and networks, on top of which, e.g., the Internet network protocols are built. Upon completing the course, the student can explain and compare the structures, principles, and possible applications of different wireless communication systems.						
	Objectives	Provide basic knowledge of main wireless communication systems, celular communication systems, WiFi and IoT.					lar	
Co	ore Concepts	Concepts Wi-Fi Antenna Radio-frequency Base Station Safety IoT						
Course Outlin	ne							
Week		Торіс						
1	Syllabus Pres	esentation						
2	Introduction t	on to Wireless Network						
3	Fundamentals	s of Signal Transmission						
4	Introduction t	o Bluetooth Technology						
5	Multiple Acce	Access Methods in Telecommunication						
6	Introduction to GSM							
7	Security and Encryption							
8	Mid Term Exam							
9	Introduction to 3G							
10	Signal Coding Techniques							
11	Mobile Technology Applications							
12	Introduction to IoT (Part 1)							
13	Introduction to IoT (Part 1)							
14	Handover							
15	Repetition							
16	Final Exam							

	Prerequisites	The student must attend the course at a minimum rate of 75%.			
Literature		Wireless Communication Networks and Systems, by Cory Beard and William Stallings ISBN: 0133594173			
References		Materiale shtesë të ofruara nga lektori i lëndës (Extra material notes provider the course lecturer)			
Course Outco	ome				
1	Student should be able to explain the general principles how the different phenomena in mobile radio channels have to be taken into consideration in the design of a reliable radio communication link.				
2	Student should be able to explain the whole transmission chain in a wireless communication system.				
3	Student should be able to describe the significance of different transmitter and receiver signal processing modules				
4	Student should be able to describe the general principles of sharing the channel in duplex and multiuser radio communications, as well as basic operation of the most common medium access (MAC) protocols.				
5		Student should be able to describe the general structure and main elements and functionalities of a cellular mobile communication system			

## **Course Evaluation**

6

In-term Studies	Quantity	Percentage
Midterms	1	30
Quizzes	0	0
Projects	1	10
Term Projects	0	0
Laboratory	0	0
Class Participation	1	10
Total in-term evaluation percent		
Final exam percent		
Total		

Student should be able to describe the concepts of Internet of Things

## **ECTS Workload (Based on Student Workload)**

Activities	Quantity	Duration (hours)	Total (hours)	
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64	
Study hours outside the classroom (Preparation, Practice, etc.)	14	4	56	
Duties	1	0	0	
Midterms	1	1	1	
Final Exam	1	2	2	
Other	0	0	0	
Total Work Load				
Total Work Load / 25 (hours)				
ECTS				