

Course Name : Wireless and Mobile Networks							
Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 219	B	Fall	3.00	0.00	1.00	3.00	5.00
Lecturer		Klaudia Tabulla, Msc					
Assistant							
Course language		Albanian					
Course level		Bachelor					
Description		Provides students with the concept of patella nets and the concept of radio waves. This course also enables students to learn mobile technology.					
Objectives		To provide the student with the first knowledge on mobile communication systems and WiFi. Dimensioning and applying them, taking into account their influencing factors. To provide students with the first knowledge of IOT.					
Core Concepts		Wi-Fi Antenna radio-frequency Base Station Safety IoT					
Course Outline							
Week	Topic						
1	Syllabus Presentation						
2	Introduction to Wireless Network						
3	Introduction to Bluetooth Technology						
4	Fundamentals of Signal Transmission						
5	Multiple 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	• Materiali i propozuar për lexim dhe ushtrime.		
Course Outcome			
1	Studenti mëson ndërtimin e rrjetave Add-hoc.		
2	Mëson konceptet e frekuencave të radio-valëve.		
3	Vitet telefonike GSM		
4	IOT		
Course Evaluation			
In-term Studies		Quantity	Percentage
Midterms		1	30
Quizzes		1	10
Projects		0	0
Term Projects		0	0
Laboratory		0	0
Class Participation		1	10
Total in-term evaluation percent			50
Final exam percent			50
Total			100
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	0	0	0
Midterms	1	1	1
Final Exam	1	1	1
Other	0	0	0
Total Work Load			122
Total Work Load / 25 (hours)			4.88
ECTS			5.00