

Course Name : Advanced Operating Systems							
Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 405	B	Fall	3.00	1.00	0.00	3.50	6.00
Lecturer Artur Koci, PhD							
Assistant Krenar Lipo, Msc							
Course language Albanian							
Course level Master							
Description Advanced Operating Systems deals with 3 main points of operating systems, such as: Virtualization, Concurrency and Persistence. All three of these points will be covered in detail, starting from the dialogue to the code. For this course, you need to have knowledge of C Language, so you get deeper into how Operating Systems work							
Objectives Learning of programming skills in OS							
Core Concepts Advanced Operating Systems deals with 3 main points of operating systems, such as: Virtualization, Concurrency and Persistence. All three of these points will be covered in detail, starting from the dialogue to the code. For this course, you need to have knowledge of C Language, so you get deeper into how Operating Systems work							
Course Outline							
Week	Topic						
1	Sistemet e Serverave Mini, Tower dhe Rack. Sistemet Operative te serverave, Windows, Linux, Unix, Novell.						
2	Instalimi i Windows Server 2019. Politikat e Passwordeve, instalimi i driverave.						
3	Krijimi dhe administrimi i Active Directory ne Windows Server.						
4	Rolet e Serverave. Shtimi dhe heqja e roleve te caktuara.						
5	Perdoruesit dhe Grupet ne Windows Server						
6	Konfigurimi i File Server. Menaxhimi i te drejtave te share dhe lejet NTFS						
7	Konfigurimi i Print Server. Menaxhimi i printerave dhe te drejtave te tyre ne AD						
8	Provimi i Ndermjetem. Midterm Exam						
9	Konfigurimi i DHCP. Menaxhimi i klienteve dhe serverit DHCP ne nje sistem me minimumi 2 LAN.						
10	Konfigurimi i politikave te sigurise dhe grupeve ne Server. Menaxhimi i tyre.						
11	Persdorimi i Powershell ne konfigurimin e ambientit Server						
12	Menaxhimi i Updateve te Windows Server me ane te serverave WSUS						
13	Konfigurimi i Makinave Virtuale ne ambientin Hyper V						
14	Menaxhimi i Makinave Virtuale ne ambientin Hyper V						
15	Prezantimi i Projektit te Kursit						
16	Final Exam						

Prerequisites	The student must attend the course at a minimum rate of 75%.			
Literature	• Operating Systems Three Easy Pieces => Authors: Remzi H Arpaci-Dusseau , Andrea C Arpaci-Dusseau			
References	• Koncepte të Avancuara të Sistemeve Operative, Advanced Concepts In Operating Systems			
Course Outcome				
1	Sisteme Operative te Avancuara trajton sistemet qe instalohen ne server duke u fokusuar tek Windows Server 2016/2019. Ajo trajton instalimin, konfigurimin dhe punen ne Windows Server si dhe permend infrastrukturen ne te cilen do te kryhet ky instalim.			
2	Sisteme Operative te Avancuara trajton sistemet qe instalohen ne server duke u fokusuar tek Windows Server 2016/2019. Ajo trajton instalimin, konfigurimin dhe punen ne Windows Server si dhe permend infrastrukturen ne te cilen do te kryhet ky instalim.			
Course Evaluation				
	In-term Studies	Quantity	Percentage	
	Midterms	1	30	
	Quizzes	0	0	
	Projects	1	30	
	Term Projects	0	0	
	Laboratory	1	5	
	Class Participation	1	5	
	Total in-term evaluation percent		70	
	Final exam percent		30	
	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	3	42
	Duties	1	6	6
	Midterms	1	2	2
	Final Exam	1	1	1
	Other	15	2	30
	Total Work Load			145
	Total Work Load / 25 (hours)			5.80
	ECTS			6.00