Course Name : Operating Systems

Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 224	B	Spring	2.00	0.00	2.00	3.00	6.00

Lecturer	Armand Agolli, Msc
Assistant	Klevis Topi, Msc
Course language	Albanian
Course level	Bachelor
Description	The Operating System class has in its basis the performance control of the computer equipment and it's Operating System resources This class is proposed by having an innovative set of tools and strategies for cultivating basic knowledge and practical skills of the students. The topics of this class offer the necessary knowledge to browse between the computer equipment and their Operating Systems, they solidify the principles of the ways the equipment is build, introduce the students to the information security and data management of sensitive information. As a result, the class leads to the strengthen the relationship between the previous completed classes and the growth of analysis level and design capacity of the computer systems.
Objectives	
Core Concepts	1. Windows Operating System Management 2. Other Operating Systems Management (Linux, OSX) 3. Application and Devices Management 4. Information and Data Management 5. Operating System Security Management

Course Outline

Week	Topic
1	Installing and Upgrading Client Systems Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 01 - 23
2	Understanding Operating System Configurations Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 24 - 67
3	Understanding Native Applications and Tools Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 69 – 97
4	Understanding Mobility, Remote Management, and Remote Assistance Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 98 - 121
5	Managing Applications & Services Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 122 - 144
6	Managing Disks Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 144 - 162
7	Managing Devices Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 163 - 186
8	Mid Term Exam
9	Understanding File and Printer Sharing Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 187 - 209

10	Maintaining, Updating, and Protecting Windows 10. Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 211 - 241
11	Understanding Backup and Recovery Methods Book: Microsoft Official Academic Course – Microsoft Technology Associate – Exam 98-349 – Windows Operating System Fundamentals Page: 242 - 259
12	Working With Other Operating Systems Book: CompTIA A+: A Comprehensive Approach (Exams 220-901 and 220-902) Page: 360 - 406
13	Security Threats, Vulnerabilities and Controls Book: CompTIA A+: A Comprehensive Approach (Exams 220-901 and 220-902) Page: 575 - 605
14	Troubleshooting System-Wide Issues Book: CompTIA A+: A Comprehensive Approach (Exams 220-901 and 220-902) Page: 641 - 682
15	Summary, Review, and Course Project Presentation
16	Final Exam

Prerequisites	The student must attend the course at a minimum rate of 75%.
Literature	• Microsoft Official Academic Course - Windows Operating System Fundamendals - Second Edition - MTA EXAM 98-349 - Wiley Publishing
References	• CompTIA A+: A Comprehensive Approach - Exams 220-901 and 220-902 - Pamela J.Taylor, Gail Sandler

Course Outcome

1	Menaxhimi i Sistemve Operative Windows – Studentet do te jene te afte te instalojne dhe te bejne konfigurimet baze te sistemeve operative Windows.
2	Menaxhimi i Sistemeve Operative te Tjera (Linux, OSX) - Studentet do te jene te afte te instalojne dhe te bejne konfigurimet baze te sistemeve operative Linux, OSX.
3	Menaxhimi i Pajisjeve dhe Aplikacioneve – Studentet do te jene te afte te instalojne, konfigurojne, menaxhojne dhe c'instalojne pajisjet dhe programe kompjuterike.
4	Menaxhimi i Te Dhenave dhe Informacionit. – Studentet do te jene te afte te bejne backup, restore dhe enkriptim te te dhenave te pajisjeve kompjuterike.
5	Menaxhimi i Sigurise se Sistemeve Operative – Studentet do te jene te afte te garantojne sigurine e sistemeve operative nepermjet menaxhimit te programeve Firewall, Antivirus dhe politikave te sigurise se sistemeve operative.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	20
Quizzes	10	10
Projects	1	10
Term Projects	0	0
Laboratory	0	0
Class Participation	0	0
Total in-term evaluation percent		**40**
Final exam percent		**60**
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	1	20	20
Midterms	1	4	4
Final Exam	1	6	6
Other	0	0	0
Total Work Load			**150**
Total Work Load / 25 (hours)			**6.00**
ECTS			**6.00**