Syllabus

BSc Faculty of Computer Science and Engineering

Subject	**Server Infrastructure**			
	Type	**Semester**	**ECTS**	**Code**
	Zgjedhore (Z)	5	5	40IS364
Course Lecturer **Course Assistant** **Course Tutor**	Osman Osmani			
Aims and Objectives	This course targets Students looking to acquire the skills and knowledge necessary to design, implement, and maintain a Server infrastructure in an enterprise scaled, highly virtualized environment. This course emphasizes on a discussion of Server Technologies concepts, which is closely linked with implementations on different hardware solutions with the Windows OS family. Given the ease-of-use of today's commercial-off-the-shelf operating systems and advancements in server hardware, students need to be actively motivated not to treat Servers and their management and operating systems as black boxes, but to gain in-depth insight in the OS and Server implementation.			
Learning Outcomes	Upon successful completion of the course, the student will: ➢ Gain knowledge on Datacenter Virtualizations ➢ Plan and deploy a server infrastructure ➢ Design and implement network infrastructure services ➢ Design and implement network access services ➢ Plan identity and authentication solutions ➢ Distinguish cloud services ➢ Plan System Migration ➢ Create DRP Plan			

Course Content	**Course Plan**	**Week**
	The definition of IT infrastructure	1
	Availability Concepts	2
	Performance and Security Concepts	3
	Datacenters	4
	Networking	5
	Storage	6
	Compute	7
	Operating Systems	8
	End user devices	9
	Infrastructure deployment options	10
	Automation	11
	Documenting the infrastructure, Maintaining the infrastructure	12
Teaching/Learning Methods	**Teaching/Learning Activity**	**Weight (%)**
	1. Lectures	40%
	2. Laboratory	20%
	3. Case studies	40%

Assessment Methods	**Assessment Activity**	**Number**	**Week**	**Weight (%)**
	1. Activity – Questionaries		1 - 12	5%
	3. Final Exam			100%

Course resources	**Resources**		**Number**
	1. Class		D132
	2. Laboratory		D132
	3. Moodle		CSE2122
	4. Software		Hyper-V, Image
	5. Projector		1
ECTS Workload	**Activity**	**Weekly Hours**	**Total workload**
	1. Lectures	2	24
	3. Case studies	3	36
	4. Independent Learning	4	48
	5. Exams		6
	6. Extra Lab		18
Literature/ References			
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