

Tárgytematika / Course Description Cloud Computing

GKNM_TATA051

Tárgyfelelős neve /

Teacher's name: dr. Kovács Ákos

Félév / Semester: 2024/25/1

Beszámolási forma /

Assesment: Folyamatos számonkérés

Tárgy heti óraszám /

Teaching hours(week): 2/0/2

Tárgy féléves óraszám /

Teaching hours(sem.): 0/0/0

OKTATÁS CÉLJA / AIM OF THE COURSE

During the semester, students can get to know the leading virtualization solutions, be it computer, application, or display solutions. They can master the logical division and management of resources. After the theoretical foundation, the subject provides an insight into the planning and scheduling tasks of large enterprise virtualization systems. It presents the solution options for virtualization organizational problems.

The course is recommended for those who want to learn about today's popular systems engineering solutions and virtualization, as well as the operation of Cloud Computing systems.

TANTÁRGY TARTALMA / DESCRIPTION

Virtualization basics, CPU virtualization

Virtualization basics, memory virtualization

Hardware requirements Intel/AMD virtualization technologies, storage virtualization

client-based virtualization, test environments

Hypervisor-based virtualization technologies, VMware, Hyper-V

VMware vSphere basics, requirements, technology overview

VMware vSphere basics, settings, profiles

VMware vSphere vCenter basics, operating principle, DRS, HA settings

Docker-based containerization solutions

Presentation of Kubernetes-based systems

High Performance Computing, solutions, design

Software Define Networking concept

Introducing Amazon AWS

Amazon AWS sample project

SZÁMONKÉRÉSI ÉS ÉRTÉKELÉSI RENDSZERE / ASSESSMENT'S METHOD

1 ZH 1 second ZH, signiture.

KÖTELEZŐ IRODALOM / OBLIGATORY MATERIAL

The material of the lessons

AJÁNLOTT IRODALOM / RECOMMENDED MATERIAL

The material of the lessons