MTAT.08.027 Basics of Cloud Computing

2018/2019 spring regular studies

Faculty/Department	Chair of Distributed Systems (LTAT06)
Amount of credits (1 ECTS=26 hours)	3 ECTS
Duration in semesters	1
Final assessment	differentiated (A, B, C, D, E, F, not present)
Syllabus credits	3 ECTS
Lecturers	Satish Narayana Srirama (responsible), Pelle Jakovits, Alo Peets
Languages of instruction	English
Minimum number of attendants	10
Maximum number of attendants	40
Study levels	bachelor's studies, master's studies
Forms of teaching and learning and no of hours	lectures: 16 practice learning: 16 independent work (including e-learning): 46
Web-based learning	Partially
Study period (in weeks)	24-31. õppenädal

Curricula containing this course

Computer Science (129537)	mas.	2016/2017	2017/2018	2018/2019
Software Engineering (100864)	mas.	2016/2017	2017/2018	2018/2019

Objectives

An overview of recent Cloud technologies is given together with their brief history, status and recent developments. The aim is to study corresponding specifications, standards and implementations together with a practical experience in using the Cloud.

Learning outcomes

Graduates of the course are confident in base Cloud technologies, types, recent trends and latest status; they have a good knowledge of basics in Cloud computing; can program some basic cloud applications, submit and manage their Cloud jobs.

Brief description

Recent direction in distributed computing - the Cloud technology is introduced. Its basic concepts and applications are considered. Main Cloud development resources are being studied. Examples of working Cloud systems are being introduced. Further development of the technology is being discussed.

Groups

Mark	Limit of attendants	Lecturers
1. rühm	20	Alo Peets
2. rühm	20	Alo Peets Pelle Jakovits

Schedule

	lecture - Basics of Cloud computing. Introduction to the course Cloud Providers & SciCloud Cloud scaling Introduction to MapReduce MapReduce Algorithms Platform as a Service - Google Cloud and App Engine More AWS and Cloud-based Research at Mobile & Cloud Lab Teemad on http://courses.cs.ut.ee/

Lecture materials and course home page

Web-based learning environment

http://courses.cs.ut.ee

Compulsory study materials

Information is provided at https://courses.cs.ut.ee/ website

Recommended study materials

Information is provided at https://courses.cs.ut.ee/ website

List of independent works and their instructions

Information is provided at https://courses.cs.ut.ee/ website

Assessment methods and criteria

practical assignment	have to be evaluated positively

Requirements to be met for final assessment

The course will be graded based on the following:

Active participation in the lectures (Max 5%)
Written exam - 50%
7+ lab exercises will fetch - 45%

To pass the course
You need to score at least 50% in each of the subsections
You need to score at least 50% in the total

To obtain final grade, the following is required

Active participation in the lectures (Max 5%)
Written exam - 50%
7+ lab exercises will fetch - 45%

Options for taking tests/exams at later date

You must submit lab exercise solutions one night before the next week practice session.
Late submission for a week will be evaluated for 80%
Late submission till end of the course will be evaluated for 50%

Other information

see course home page