



DCGI

KATEDRA POČÍTAČOVÉ GRAFIKY A INTERAKCE

Web applications 2

OI Master study

Introduction

■ Goals:

- Introduction into the theory and praxis of cloud technologies
- Demonstration of common and differences of various cloud types

■ Subject format

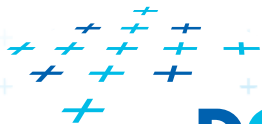
- Lecture (1x), exercise, individual home preparation

■ Subject web

- <https://cw.fel.cvut.cz/wiki/courses/a4m39wa2>

Schedule - lecturers

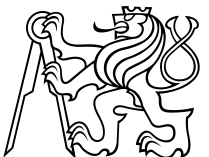
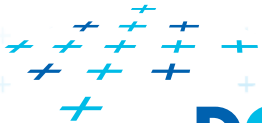
1. SOA, RESTFULL web services
2. Java EE, MVC, Servlets (IOC)
3. Frameworks - GWT
4. Java EE persistence (JPA, možno nahradit Hibernate)
5. Introduction to cloud
6. Google App Engine
7. Distributed databases (Lamport clock, clousters, paxos)
8. NoSQL Databases (Hadoop, M&R)
9. Visit to Česká pojišťovna
10. PaaS Azure
11. Persistence Azure (Blob, Table)
12. Distribuované systémy (Tannenbaum)
13. Host / student projects



Schedule – labs

1. RESTful API
2. Servlets and JSP 
3. Hibernate
4. Frameworks in Java - GWT
5. Pisemka (10 min), Google App Engine
6. NoSQL - Hadoop and Pig 
7. .NET Introduction, Windows Azure Platform basics
8. Windows Azure Platform data persistence basics (IOC in .NET)
9. Visit to Česká pojišťovna
10. Azure roles, Presentation of sem. works
11. Azure role II, Presentation of sem. works
12. Test 2, Presentation of sem. works
13. Odevzdání semestrálních prací, zápočet 

Written test



Lecturers

■ Guarantor:

- Martin Klíma, xklima@fel.cvut.cz, KN:E 321



■ Labs:

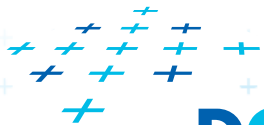
- Martin Mudra, mudrama1@fel.cvut.cz, KN:E 424



Conditions of success

To get the credit an attendee has to:

- Have presence at least see bellow.
- Pass two 10 minutes tests
- Have the semestral work assigned
- Have the semestral work passed first checkpoint.
- Have the semestral work successfully submitted.



Assessment

Item	Min	Max
Home work	0	10
Written test 1	0	10
Written test 2	0	10
Semester work	10	20
Written exam	10	25
Oral exam	0	25
Total	20	100

Grade	From	To	Grade name
A	91	100	výborně
B	81	90	velmi dobře
C	71	80	dobře
D	61	70	uspokojivě
E	51	60	dostatečně
F	less than 51		nedostatečně

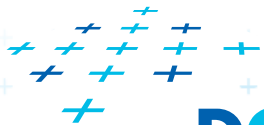
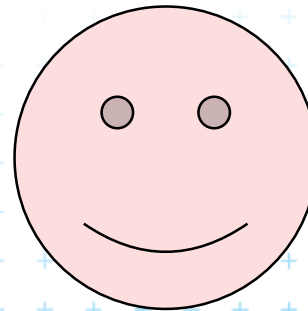


Specialties

- You can choose any cloud platform.
- You can come with your own topics.



GOOD LUCK



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