VL+UE LOGIK: COURSE ORGANIZATION

WS 2019/2018 (342.208, 342.209, 342.W09)

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Objectives of this Course

In this course, you will learn to

- understand logic formulas
- use concise mathematical notations
- formulate and solve problems in formal languages
- reason with logics manually and algorithmically

This course consists of *lectures* and *exercises*.

Organization of the Course

Lecture

- each week: Tuesday, 8:30–10:00, HS 1
- link to video stream in Moodle

Minitest

- each week: Tuesday, 10:15–10:30,
    - ☐ HS 1
    - ☐ JKU Distance Learning Center Vienna

Exercises

- each week: Tuesday, 10:45–11:30, HS 1
- link to video stream in Moodle
- based on the lecture of the same day
- presented by lecturer

Grading

- ■ weekly minitests during the winter semester (recommended)
  - ☐ optionally supplemented by lab exercises
  - ☐ if passed positively, no further exam is required
  - ☐ details on the next slides

- ■ alternative: one big exam
  - ☐ over whole content of the course (lecture and exercises)
  - ☐ end of semester, spring 2020, autumn 2020
  - ☐ extra registration in KUSSS required
  - ☐ in Linz or in Vienna

In either case, you get two certificates (with the same grade): one for the lecture and one for the exercises

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Structure of this Course

name	lectures	assignments		
		mini-tests	labs	required positive
Module 1: SAT	4	4	1	2
Module 2: First-Order	6	6	2	3
Module 3: SMT	2	2	1	1

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Mini-Tests

- if you hand in one test, you will get the certificates
- each week
- duration: 15 minutes
- everybody has to individually solve a test similar to the exercises discussed in the previous week
- this test will be corrected and is used for the grade of the exercise course
- each handed-in test is worth up to 5 points
- a handed-in test is positive with ≥ 2.5 points
  - □ up to 1 additional point can be earned by solving the weekly challenges
- no test can be repeated or taken at a later time

Lab Exercises

- the lab exercises have a tool aspect and are voluntary
- each handed-in lab exercise is worth up to 5 points
- solutions of handed-in lab exercises have to be presented orally
- a lab exercise is positive with ≥ 2.5 points
- dates for the lab exercises depend on the date of their announcement:
  - Week X: announcement of lab exercise
  - Week X+2 (or 3):   submission
  - Week X+3 (or 4):   presentation

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Weekly Challenge

- each Tuesday, we publish a weekly challenge
- this challenge can be submitted until the given deadline (before the minitest!) via Moodle
- you can earn up to one extra point that is counted for this minitest (BUT: maximum is still 5 points)
- assume you obtain t points on the minitest and you get c for the weekly challenge, then you get $min((t + c), 5)$ points
  - example 1: you have 1.5 points on the minitest. With the point from the weekly challenge you have 2.5 points (positive!!!!)
  - example 2: you have 5 points on the minitest. With the point from the weekly challenge you have 5 points.

Grading

- to pass the course you need to have
  - the required number of positive assignments for each module
  - enough points in total (see below)

- grading scheme:
  - ≥ 52 points: 1   very good (sehr gut)
  - ≥ 44 points: 2   good (gut)
  - ≥ 36 points: 3   satisfactory (befriedigend)
  - ≥ 28 points: 4   sufficient (genügend)
  - < 28 points: 5   insufficient (nicht genügend)

Lecturers

Armin
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Martina
Seidl

Wolfgang
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Contacts

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JKU Distance Learning Center in Vienna

- address: Strozzigasse 2, 1080 Vienna
- lectures and exercises will be live streamed
- weekly minitests can be taken there
- Dr. David Cerna will be available before and after exercises for answering questions

David Cerna
Institute for Formal Models and Verification,
Science Park 3 (SP3), Linz

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Questions?

1. ask your colleagues

2. consult the teaching assistants (time and location is announced in Moodle)

3. ask in the Moodle forum if you have a question of general interest

4. write an email if you have a personal question that is not of interest to your colleagues (otherwise use the forum)

Resources:

http://fmv.jku.at/logik

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