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
## Structure of this Course

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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 $\geq 2.5$ 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 $\geq 2.5$ 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
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 Biere

Wolfgang Schreiner

Martina Seidl

Wolfgang Windsteiger
Contacts

■ **Armin Biere** biere@jku.at
  *Institute for Formal Models and Verification (FMV), Science Park 3 (SP3), Linz*

■ **Martina Seidl** martina.seidl@jku.at
  *Institute for Formal Models and Verification (FMV), Science Park 3 (SP3), Linz*

■ **Wolfgang Schreiner** Wolfgang.Schreiner@risc.jku.at
  *Research Institute for Symbolic Computation (RISC), Hagenberg Castle, Hagenberg im Mühlkreis*

■ **Wolfgang Windsteiger** Wolfgang.Windsteiger@risc.jku.at
  *Research Institute for Symbolic Computation (RISC), Hagenberg Castle, Hagenberg im Mühlkreis*
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
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