

Blockchain programming laboratory rules and grading

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Attendance is mandatory (following the already known university rules).

You will gain a maximum of 10 activity points by engaging in one or more of the following activities. You will need at least 5 activity points to pass the class.

1 Assignments

You will get 5 assignments for the first 5 weeks of laboratory, **each rewarded with 1 activity point**, which needs to be submitted before then next laboratory.

Each of the 5 assignments will consist of a practical introduction to an aspect of smart contract programming. You will need to submit a one-page essay about what you have learned.

Here are some ideas about the things you may talk about in your essay:

1. A terse, technical summary of all the things you learned.
2. Topics you found challenging to understand.
3. Questions that came to mind (and their answers).
4. Compare what you learn about solidity to similar features in other languages/technologies/frameworks.
5. Ideas of contracts you could implement based on the things you learned.
6. Insightful observations or ideas.

7. Security or engineering concerns.

2 Final project

The final project will consist of a smart contract developed as a business idea. You may work in teams of up to 4 people. The final exam will consist of a pitch-like presentation of your idea, and the grading will be as follows:

- A. **[0.5 - 1 point]** You will need to have a working smart contract. You will be graded based on code complexity and cleanliness.
- B. **[0.5 - 1 point]** Pitching the idea. You will be graded based on your answers to questions and discourse quality.
- C. **[0.5 - 1 point]** Presentation. Depending on how interesting the idea is and how it looks.

3 Presentations

Presentations will last 10 minutes, followed by 5 minutes of questions.

The presentation subject may be any **technical, blockchain related** presentation, including what you worked on for your homework.

If the presentation is not interesting for anyone (either me or your audience), you will **not** receive any points.

You will receive one point for an adequate presentation or two points for a technically challenging presentation (ex: a practical demonstration of the DAO attack). Presentations that aim for getting two points may take up to 20 minutes with 5 minutes of questions.

Presentation time slots will be awarded based on the subject and the time of submission.

4 Questions

Good questions will be awarded **0.5 points**. Regardless of whether I find your question useful or not, I will try to answer all submitted questions during the laboratory.

5 Feedback

Completing all questions on the final feedback form will also grant you **0.5 points**.