

General Information

HUSZERL Gábor
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Méréstechnika és
Információs Rendszerek
Tanszék



**Critical Systems
Research Group**

Course Staff

- Lectures:



HUSZERL Gábor

Laboratory practices:



Damaris Jepkurui KANGOGO



Noor AL-GBURI

- Responsible professor of the course:



MICSKEI Zoltán

- Technical Support:



ELEKES Márton

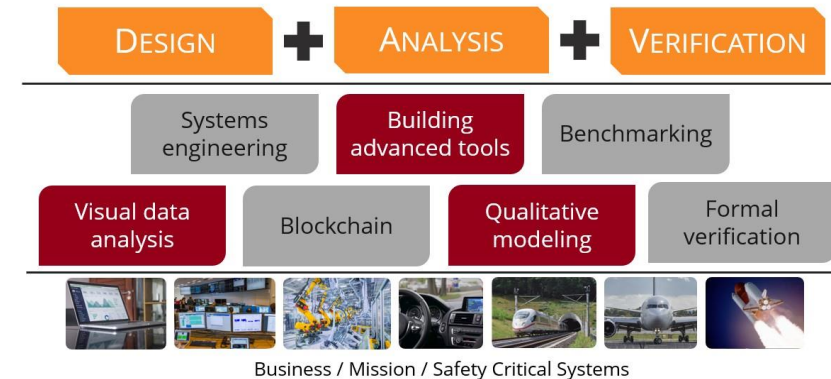


DOBOS-KOVÁCS Mihály

Critical Systems Research Group



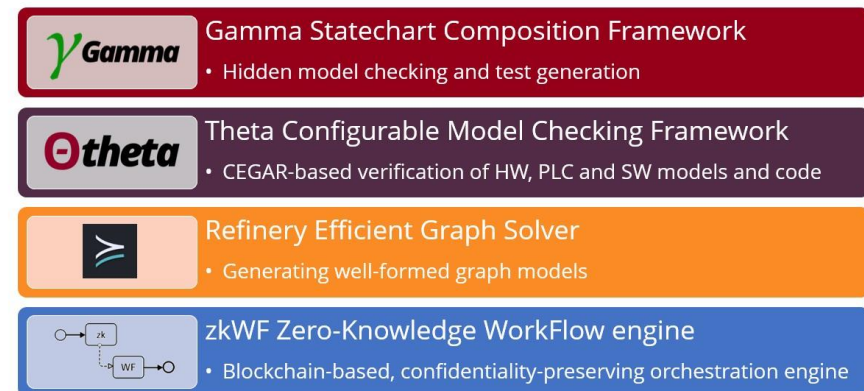
Competencies & Methods



Overview of the research group



Our tools



Overview of the research group



NEW Course

Changes: new thematic and order; there are labs; homework focus;
(new Neptun code)

Information from previous years are
partially valid only!

BETA

FEEDBACK
WELCOME

Goals (3/0/1/exam)

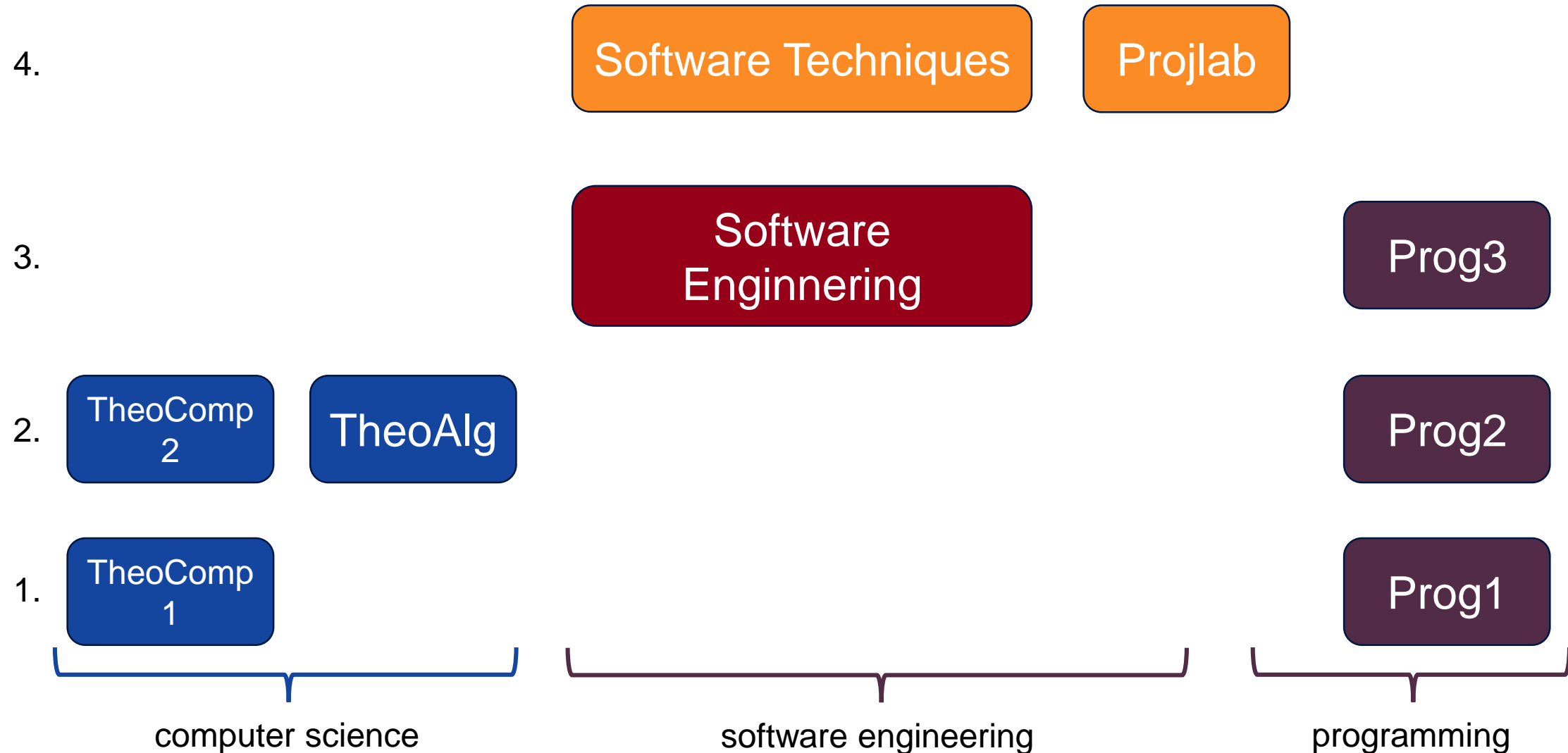
How complex software systems are developed?

- **Lectures**: becoming acquainted with problems and methods
 - requirements, testing, code analysis, modelling, ...
- **Laboratory**: meeting technologies



- **Homework assignment**: applying/deepening what you have learned
 - on your own or on an open source project

Position of the Subject in the BSc Program



Requirements

<https://portal.vik.bme.hu/kepzes/targyak/VIMIAB04/en>

- During the semester

- Laboratory: mandatory participation
 - Diagnostic assessments in the first 10 minutes (at least 4 out of 6 have to be passed)
 - No substitution, no retake, etc.
- Homework assignment: GO/NOGO
 - Assignment: 7. semester week, submission deadline: 12. semester week
 - Late submission within one week after deadline

- In the examination period

- Written exam
- Entry test (basic terms) + constructive exercises

Laboratory

- **Active participation and independent task and problem solving**
- Diagnostic assessments (entry test): Moodle
 - One single attempt, 5 minutes
 - Moodle closes at the deadline **automatically**
 - At least 2 points out of 4 (3-4 small questions usually)
- Environment
 - Laboratory computers, Windows, Visual Studio Code

Homework assignment

- **Goals**

- understanding, modelling, and extending an existing complex software
- evaluating the solution of another student

- **Infrastructure:** Git, GitHub

- **Expectation:** professional engineering work with high quality (cca. 32 working hours)

Materials and contacts

- [Moodle \(edu.vik.bme.hu\)](https://edu.vik.bme.hu)
 - Descriptions and details
 - Slides and supplementary materials
- [Microsoft Teams](#)
 - News and actual information (*General* channel)
 - General technical questions in the specific channels
 - Direct messages (chat) WILL NOT BE ANSWERED
- [Mails \(huszerl@mit.bme.hu\)](mailto:huszerl@mit.bme.hu)
 - Specific questions, personal issues

**Synchronous answers at
lectures and labs**

**Asynchronous answers
during the day
(no 0-24 hours support)**

Learning Outcomes

- **Learning outcomes** for each lecture and for the subject
 - What you are expected to be able to do at the end of the lecture/subject
 - Setting the focus (e.g. for the exam)
- Levels of knowing
 - **K1 Knowledge** (recall, identify, describe, list, define, describe, ...)
 - **K2 Comprehension** (summarize, explain, classify, differentiate, ...)
 - **K3 Application** (apply, modify, employ, relate, ...)
 - **K4 Analysis** (analyse, compare, calculate, debate, ...)

Further reading: Declan Kennedy. „Writing and Using Learning Outcomes - A Practical Guide“, 2007