

Lecture 0: org meeting syllabus, contacts

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<https://github.com/Svazars/parallel-programming/blob/main/slides/pdf/intro.pdf>

One stop page

- Slides/tasks in English, discussion in Russian
- Course overview: <https://github.com/Svazars/parallel-programming/blob/main/docs/course-overview/overview.pdf>
- Course page (deadlines etc): <https://sys.pro/courses/parallel/>
- Scoring rules:
<https://github.com/Svazars/parallel-programming/blob/main/docs/hw/hw.pdf>

Course overview

Three blocks:

- Practical concurrency (writing concurrent code, debugging multi-threaded software)
- Foundations of concurrency (hierarchy of concurrent operations, consistency, progress conditions, h/w cache coherence)
- Advanced topics (+ invited lectures)

Question time

Question: Who will be the guest lecturer?



Deadlines

Will be strict (no pass – no go).

You should start doing homeworks from the very first lecture.

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Homework, mail

Task 0.1 Email to filatovaur@gmail.com, Subject "Group, Name, ProblemNum" (e.g. "11111, Иванов, 0.1"), content "мой никнейм в телеграм группе @?????"

Scoring rules

Will be adapted according to overall performance.

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3 blocks – 3 critical problems:

- soft deadline
- hard deadline

Every critical problem consists of 3 levels:

- base
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- solved code problems – "practical" grade
- final oral exam – "theory" grade
- missing base critical problem – "3"
- course grade – $\text{avg}(\text{"practical"}, \text{"theory"})$

Intermediate oral exams – "guaranteed mark".

Course materials

- "The Art of Multiprocessor Programming" by M. Herlihy & N. Shavit
- "Is Parallel Programming Hard, And, If So, What Can You Do About It?" by Paul E. McKenney
- "Java Concurrency in Practice" by Brian Goetz et al.