

Exam

- Dates: 15. 1. 2021, 21. 1. 2021, (9. 2. 2021)
- Written test:
 - ▶ 10 questions, 75 minutes
 - ▶ Topics: see next slide
 - ▶ On-line (Moodle)
- Oral exam:
 - ▶ Mandatory (due to on-line test)
 - ▶ Written test (check that it was written by you)
 - ▶ Exercise tasks
 - ▶ Anything related to real-time and/or embedded systems

Written test topics

- Real-Time theory (most important, high number of points)
 - ▶ RT systems modelling
 - ▶ Cyclic executives, slack stealing, off-line scheduling
 - ▶ EDF, schedulability condition
 - ▶ RM, DM: schedulability conditions and tests (utilization based, response-time analysis, $D \leq T$)
 - ▶ Resource management, priority inversion, synch. protocols (PI, PCP, SRP, ...), influence on response time and schedulability analysis
 - ▶ Mixing Real-Time and Non-Real-Time (slack stealing, polling server, deferrable server, total bandwidth server, constant utilization server)
- Safety engineering (generic approach, SIL)
- C language, Coding standards
- RTOS internals with focus on VxWorks OS and its properties
- POSIX 1003.1b - what, why, how