Exam

- Dates:
  - **19. 1. 2023**
  - **24. 1. 2023**
  - **6. 2. 2023**

- Written test:
  - 10 questions, 75 minutes
  - Topics: see next slide
  - ~~On-line (Moodle)~~

- Oral exam:
  - Optional
  - Discussion about your written test
  - Excercise 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 <= 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, HAZOP)

- C language, Coding standards

- RTOS internals with focus on VxWorks OS and its properties

- POSIX 1003.1b – what, why, how