TOPICS COVERED

① Threads and Processes

- threads vs processes, kernel level vs user level threads, preemptive vs non-preemtive
- implementation: TCB, PCB, context switches, system calls`

② Concurrency Control

- critical sections, mutexes, semaphores,deadlock

③ Memory Management

- partitioning, fragmentation, partitioning algorithms, swapping

④ Virtual Memory

- paging, mmu, page tables, address translation, TLB

① I/O Management

- accessing I/O devices, I/O scheduling, DMA, RAID

② Scheduling

- scheduling criteria, algorithms, multiprocessor scheduling

③ Real-time Systems

- soft and hard real-time systems, scheduling

④ File Systems

- naming, access, organisation, Unix file system, allocation

⑤ Distributed Systems

⑥ Security and Breaking Security

SURVEYS

In addition to the school's survey, we will have our own

➜ will be announced on mailing list

➜ please take the time to give us feedback

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➜ 2 bonus marks as Thank You

EXAM

➜ Check school web page for date and location

➜ Duration: 2 hours

➜ 6 Questions

➜ Questions are not of equal value

- use provided booklets to answer questions, if not instructed otherwise
- use separate booklet for each question

➜ Closed book exam

➜ be brief when answering the questions

➜ exam consultations (Gabriele): on appointment

HOW TO PREPARE FOR THE EXAM?

➜ review topics covered in the lecture notes, assignments

➜ review tutorial questions

➜ exam consultation:

  - Tuesday, 14:00 -15:00
  - Mo, Tue, Thu or Fri with appointment