SOA

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BarcelonaTech
2022-2023 QP
Goals

• Get a good OS Internal understanding
  – Program low level O.S. code (C+Asm)
  – Develop the basic system components
  – Add functionalities to an existing O.S

• Relation with previous courses?
  – Continuation from SO (black box view)
Course Description

• 10h/week of work
  – Lecture classes (2h)
  – Lab classes (2h)
  – On your own (6h)

• Teams of two students
Laboratories

• Create a functional operating system
  – Mechanisms to enter system
  – Basic Process mgmt
  – Additional features
    – Threads and Synchronization
    – I/O mgmt and dynamic memory
    – ...

• 2h classes with teacher support

• 6h after classes on your own (without teacher)
Grading SOA

- Grade = \((CT + CTr) \times (10/11)\)
- Technical Competence (CT)
  - Continuous assessment (CTc)
  - Final evaluation (CTf)
    - Only for those students that fail the continuous assessment
  - Max (CTc, CTf)
- Generic Competences (CTr)
  - Dedicated questions in the laboratory classes and exams
  - Maximum of 1 point
Technical Competence (CTc)

• 40% Theory (T)
  – 2 mid term exams (T1, T2)
    • 50% T1 + 50% T2
• 60% Laboratory (L)
  – A mid term exam (L1)
  – Continuous assessment during lab (S)
  – Your extension Project (P)
    – Do not wait till the DEADLINEs
  – 30% L1 + 20% S + 50% P
Technical Competence (CTc): S

• 2 Deliveries
  – 50% E1: Status
    • Code
  – 50% E2: Final
    • Code
Choose your extension

Milestones
- Extension divided in milestones
- A milestone implies code works, functional and tested

Every step must be reviewed and approved to start the next one
## CTc Summary

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Technical Competence (CTf)

- 50% Theory (T)
- 50% Laboratory (L)
- 20/06/2022 from 15:00 to 20:30 (provisional)
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Material

• Course web page:
  – http://studies.ac.upc.edu/FIB/grau/...

• Bibliography

• Other Resources:
  – Racó
    • Forums
    • Notes
    • Grading
  – Your tutor is your friend

• Don’t forget to choose a representative student