SOA/SO2

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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

- Grade = (CT + CTr)*(10/11)
- Technical Competence (CT)
  - Continuous assesment (CTc)
  - Final evaluation (CTf)
    - Only for those students that fails the continuous assessment
  - Max (CTc, CTf)
- Generic Competences (CTr)
  - (SOA) Dedicated questions in the laboratory classes and exams
  - (SO2) Written essay
  - Maximum of 1 point

Technical Competence (CTc)

- 50% Theory (T)
  - 2 mid term exams (T1, T2)
    - 50% T1 + 50% T2
- 50% Laboratory (L)
  - A mid term exam (L1)
  - Continuous assessment during lab (S)
  - Your extension Project (P)
    - Do not wait till the DEADLINEs
  - 40% L1 + 10% S + 50% P

Technical Competence (CTc): S

- 2 Deliveries
  - 50% E1: Status
    - Code
  - 50% E2: Final
    - Code

Technical Competence (CTc): P

- 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

E1	2.5%
E2	2.5%
T1	25%
L1	20%
Milestones	25%
T2	25%
CTc	**100%**

Technical Competence (CTf)

- 50% Theory (T)

- 50% Laboratory (L)

- 17/06/2025 from 8:00 to 14:15 (provisional)

Schedule

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10/02/25						14/02/25	
17/02/25						21/02/25	Festius/No lectius
24/02/25						28/02/25	Canvi dia lectiu
03/03/25					E1	07/03/25	Entregues
10/03/25						14/03/25	Examens
17/03/25						21/03/25	
24/03/25						28/03/25	
31/03/25	T1					04/04/25	
07/04/25				L1	E2	11/04/25	
14/04/25						18/04/25	
21/04/25						25/04/25	
28/04/25						02/05/25	
05/05/25						09/05/25	
12/05/25						16/05/25	
19/05/25	T2				LAST	23/05/25	
26/05/25						30/05/25	
16/06/25		F				20/06/25	

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