SOA

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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 SOA

- Grade = (CT + CTr)*(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

Technical Competence (CTc): P

- 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

E1	6%
E2	6%
T1	20%
L1	18%
Milestones	30%
T2	20%
CTc	**100%**

Technical Competence (CTf)

- 50% Theory (T)

- 50% Laboratory (L)

- 20/06/2022 from 15:00 to 20:30 (provisional)

SOA Schedule

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05/09/22						09/09/22	
12/09/22						16/09/22	Festius/No lectius
19/09/22						23/09/22	Canvi dia lectiu
26/09/22					E1	30/09/22	Entregues
03/10/22						07/10/22	Examens
10/10/22						14/10/22	
17/10/22						21/10/22	
24/10/22						28/10/22	
31/10/22					E2	04/11/22	
07/11/22	L1		T1			11/11/22	
14/11/22						18/11/22	
21/11/22						25/11/22	
28/11/22						02/12/22	
05/12/22						09/12/22	
12/12/22						16/12/22	
19/12/22			T2		LAST	23/12/22	
16/01/23		F				20/01/23	

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