Creative Commons License

This work is under a Creative Commons Attribution 3.0 Unported License

The details of this license are publicly available at
https://creativecommons.org/licenses/by-nc-nd/4.0
Outline

• Goals
• Lecturers
• Course Description
• Competencies (Technical and Transversal)
• Lectures Description
• Grading
• Scheduling
• Others
Goals

• Introductory understanding about wide range of computer related topics
  • Hardware and software components of a system
  • Operating Systems support
  • Fundamentals of programming
  • Basic software optimization techniques
  • Basic performance analysis

• Course Previous Requirements
  • None

• Previous capacities
  • Basic programming skills
Lecturers

• Teachers
  • Alex Pajuelo
    • Office: C6-E205
    • E-mail: mpajuelo@ac.upc.edu
    • E-mail Gsuite: alex.pajuelo@upc.edu
  
  • Xavi Verdú (coordinator)
    • Office: D6-109
    • E-mail: jverdu@ac.upc.edu
    • E-mail Gsuite: javier.verdu@upc.edu
Course and Lectures Description

• ~13h/week Total work

• 3h/week theory lectures
  • 1 hour lectures

• 2h/week lab sessions
  • Working in pairs

• 8h/week on your own, on average
Competences

• Technical
  • **CE4** - Use *current computer systems*, including high performance systems, for the process of large volumes of data from the knowledge of its structure, operation and particularities.
  • Other Generic Competencies: **CG1, CG2, CG4**

• Transversal
  • **CT5** - Effective use of information resources
  • **CT6** - Autonomous Learning
  • **CT7** - Third Language (English)

• Other Basic Competences
  • **CB1 (basic to advanced knowledge), CB2 (professionality, problem solving), CB5 (high degree of autonomy)**
Theory Lectures

• 1h lectures
  • 3 sessions per week

• Based on slides

• Cooperative learning
  • Questions & exercises related to current topics
    • Promote engaging discussions!!!!

• Autonomous learning
  • Homework and fulfill the lab exercises
Lab Sessions

• Complement theory lectures
  • Get experience dealing with the concepts explained in theory lectures
  • Synchronized with theory lectures

• 2h sessions with teacher support
  • In theory classrooms due to healthy protocol
    • Bring your own laptop
    • There is a laptop lending service provided by FIB (https://www.fib.upc.edu/ca/la-fib/serveis-tic/prestec-de-portatils)
  • Working in pairs
  • Deliverables to fulfill lab sessions

• Attendance:
  • Not mandatory, but strongly recommended
  • Brief interviews to check the work done → part of the mark
Conditions to Physically Attend Lectures (UPC)

• It is mandatory to use masks and keep security social distance
• Ventilated classrooms (open windows and doors during lectures)
• Arranged access to classrooms
• Students will use RACO (i.e. “sócaquí” tool) to register the classroom distribution of every session (strongly suggested to keep same distribution among sessions)
• Telematics consultation
• You have to sign a document of responsibility statement
What if quarantine or lockdown... (I)

- Adendum in the syllabus

- If a student is positive for COVID-19 or has to be under preventive quarantine
  - It is important to notify the COM’s coordinator and submits the official form to the FIB
  - Streaming of lectures for students cannot attend due to COVID-19
  - The Lab tracking interviews will not be done during this period
  - The student has to keep doing and fulfilling the deliverables, but we can grant wider time flexibility

- Behavior of Lab sessions under quarantine or lockdown
  - The student can join the session through the Gmeet link. during the session to answer doubt during the lab session
  - The deliverables done during the quarantine/lockdown period will not be taken into account, but it is strongly suggestable to do them as soon as possible (the deadline will be delayed as well).

- If there is any assessment event, such as an exam, the event will be delayed for the particular people under quarantine to be done as soon as they can go to the classroom
What if quarantine or lockdown... (II)

• If the lectures of a particular group (or all of them) have to be under no-presence mode, it will be notified through RACO

• In case of Alarm State of global lockdown
  • Additional support material will be provided
  • Additional sessions to solve doubts
  • Lectures and Lab sessions will be synchronally performed
  • Assessment methodology will be exactly the same, but remotely
Grading

• Theory Mark = MAX(30% PT + 40% FT; 70% FT)
  • PT: Theory mid-term
  • FT: Final Theory Exam

• Regular Technical Mark = Theory Mark + 20% LS + 10% Labwork
  • LS: Lab Session (Last week)
  • Labwork: Brief interviews to checking the work done in labs and delivered

• If fail → Reassessment
  • Reassessment mark substitutes the global theory mark (that is, 70% of the course mark)
  • If the regular assessment mark was 4 or higher and the new mark (including the Reassessment mark) is lower, then we keep the regular mark

• Transversal Competence Mark: Based on lab work
# Scheduling

<table>
<thead>
<tr>
<th>Dilluns</th>
<th>Dimarts</th>
<th>Dimecres</th>
<th>Dijous</th>
<th>Divendres</th>
</tr>
</thead>
<tbody>
<tr>
<td>14/02/2022</td>
<td>T0/T1</td>
<td>S1</td>
<td></td>
<td>T1</td>
</tr>
<tr>
<td>21/02/2022</td>
<td>T2</td>
<td>S2</td>
<td></td>
<td>T2</td>
</tr>
<tr>
<td>28/02/2022</td>
<td>T2</td>
<td>S3</td>
<td></td>
<td>T3</td>
</tr>
<tr>
<td>07/03/2022</td>
<td>T3</td>
<td>S4</td>
<td></td>
<td>T3</td>
</tr>
<tr>
<td>14/03/2022</td>
<td>T4</td>
<td>S5</td>
<td></td>
<td>T4</td>
</tr>
<tr>
<td>21/03/2022</td>
<td>T4</td>
<td>S6</td>
<td></td>
<td>T5</td>
</tr>
<tr>
<td>28/03/2022</td>
<td>T5</td>
<td>S7</td>
<td></td>
<td>Parcial Teoria</td>
</tr>
<tr>
<td>04/04/2022</td>
<td></td>
<td></td>
<td></td>
<td>T5</td>
</tr>
<tr>
<td>11/04/2022</td>
<td></td>
<td></td>
<td></td>
<td>T5</td>
</tr>
<tr>
<td>18/04/2022</td>
<td></td>
<td></td>
<td></td>
<td>T5</td>
</tr>
<tr>
<td>25/04/2022</td>
<td>T6</td>
<td>S9</td>
<td></td>
<td>T6</td>
</tr>
<tr>
<td>02/05/2022</td>
<td>T6</td>
<td>Simu Prova</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09/05/2022</td>
<td>T6</td>
<td>S10</td>
<td></td>
<td>T7</td>
</tr>
<tr>
<td>16/05/2022</td>
<td>T7</td>
<td>S11</td>
<td></td>
<td>T7</td>
</tr>
<tr>
<td>23/05/2022</td>
<td>T8</td>
<td>Prova Lab</td>
<td></td>
<td>T8</td>
</tr>
<tr>
<td>30/05/2022</td>
<td>T8/Repas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>27/06/2022</td>
<td></td>
<td></td>
<td></td>
<td>Ex. Final Teoria</td>
</tr>
<tr>
<td>01/07/2022</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Color Significat**
- **Sense classe per dies d’avaluació**
- **Sense classe per dies no lectius**
- **Proves d’avaluació de Teoria**
- **Prova d’avaluació de Lab**
- **Simulacre Prova Lab**
Others

• Web Site:
  • [http://docencia.ac.upc.edu/FIB/GCED/COM](http://docencia.ac.upc.edu/FIB/GCED/COM)

• Bibliography
  • Basic + complementary (according to lessons needs)

• Other resources
  • RACO
  • Appointments (don’t forget sending a previous email)

• Select a Students Representative