**UTCN / Computer Science Department**

**Software Design 2012/2013**

**LABORATORY SCHEDULE**

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| **Week** | **Laboratory activities** | **Project activities** | **Deliverables** |
| **W1** | * Revision exercises (UML, Design Patterns, Testing techniques) | Discuss projects **/** choose project | - |
| **W2** | * Object Constraint Language (OCL) – exercises | Final deadline for choosing the project | - |
| **W3** | * Database connection and operations – exercises | **Project Deliverable 1** – presentation and discussion  **- Inception:** Software Requirements, Vision, Use Case Model, Supplementary Specification, Glossary |  |
| **W4** | * Architectural patterns and styles – exercises * **Assignment A1 –** presentation and discussion | * **Project Deliverable 1** – progress and discussion | - |
| **W5** | * **Assignment A1 –** progress and discussion | **Project Deliverable 2** – presentation and discussion  **- Elaboration – Iteration 1.1:** Domain Models, Architectural Design (architectural patterns and styles, package design, component diagrams, deployment diagrams) | **Project Deliverable 1:** Vision, Use Case Model, Supplementary Specification, Glossary documents |
| **W6** | * XML basics – exercises * **Assignment A2** – presentation and discussion | * **Project Deliverable 2** – progress and discussion | **Assignment A1** |
| **W7** | * Design patterns – exercises * **Assignment A2 –** progress and discussion | **Project Deliverable 3** – presentation and discussion  **- Elaboration – Iteration 1.2:** Design Model (UML sequence, collaboration diagrams, UML class diagrams, design patterns), Data Model | **Project Deliverable 2:** Domain Model, Architectural Design, Component and Deployment diagrams |
| **W8** | * **Assignment A3** – presentation and discussion | * **Project Deliverable 3** – progress and discussion | **Assignment A2** |
| **W9** | * Package and class design principles – exercises * **Assignment A3** – progress and discussion | **Project Deliverable 4** – presentation and discussion  **- Elaboration – Iteration 2:** Package design refinement (design principles), Design model refinement (class design principles, more GoF patterns) | **Project Deliverable 3:** Design Model, Data Model |
| **W10** | * GRASP – exercises * **Assignment A4** – presentation and discussion | * **Project Deliverable 4** – progress and discussion | **Assignment A3** |
| **W11** | * **Assignment A4** –progress and discussion | **Project Deliverable 5** – presentation and discussion   * **Project construction and transition** | **Project Deliverable 4:** RefinedDesign Model |
| **W12** | **-** | **-** | **Assignment A4** |
| **W13** | - | - | **Project Final Presentation:** Design and Implementation |
| **W14** | - | - | **Late Assignments and Projects** |

* **Laboratory rules**
  + **Laboratory sessions are compulsory – no more than 3 absences are allowed.**
  + **Assignments and project deliverables must be presented when established. One delay is accepted, while the other delays are penalized by subtracting 2 points from the final mark for each week passed. A single assignment can be presented during a laboratory session. No more than 2 labs can be caught up in each make-up exam session.**
* **Grading**
  + **Assignment grading: 0.5 \* Documentation\_grade + 0.5 \* Implementation\_grade**
  + **Project grading: 0.1\*Deliverable1 + 0.1\*Deliverable2 + 0.1\*Deliverable3 + 0.1\*Deliverable4 + 0.2\*Final Design + 0.4\*Implementation**