

COS20007 S2/2024 Tasks Listing

| Week to release | Lecture Topic | Portfolio Task(s) | Description | Tentative Date |
|-----------------|------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Unit Overview and Introducing Objects | Pass Task 1 | Hello World | Compulsory Pass Tasks (*) due on W5, Friday (4/10/2024 @ 11.59pm) |
| | | Pass Task 2 | Counter | |
| | | *Pass Task 3 [4m] | Resource | |
| | | Pass Task 4 | C# Programming Reference Sheet | |
| 2 | Unit Testing and Test Driven Development | Pass Task 5 | Shape Drawer | Compulsory Pass Tasks (*) due on W5, Friday (4/10/2024 @ 11.59pm) |
| | | Pass Task 6 | Unit Testing Shape | |
| | | *Pass Task 7 [4m] | Unit Testing the Resource Class | |
| | | *Pass Task 8 [2m] | Documenting the Resource Class | |
| 3 | Object Collaboration | Pass Task 9 | Shape Drawer | Compulsory Pass Tasks (*) due on W5, Friday (4/10/2024 @ 11.59pm) |
| | | *Pass Task 10 [7m] | The Project | |
| 4 | Inheritance and Polymorphism | Pass Task 11 | Shape Drawer | Compulsory Pass Tasks (*) due on W5, Friday (4/10/2024 @ 11.59pm) |
| | | *Pass Task 12 [8m] | The Project Extended | |
| 5 | UML Class and Sequence Diagram | *Pass Task 13 [15m] | Conceptual Modelling and Implementation (Industry case study) | Formative feedback for first five compulsory pass tasks (*), which will due on W5, Friday (4/10/2024 @ 11.59pm) Pass Task 13 dues on W9, Monday (4/11/2024 @ 11.59pm) . Credit Task 1 dues on W7, Monday (21/10/2024 @ 11.59pm) . |
| | | Credit Task 1 [2m] <i># Compulsory to students aiming for Credit grade.</i> | Game/Sport Tournament Management System (System Modelling) | |
| 6 | Elements of Good Design | Supplementary Exercise | Case Study (Swin-Adventure) Iteration 1&2 | Distinction Task 1 dues on W8, Monday (28/10/2024 @ 11.59pm) . |
| | | Distinction Task 1 [3m] <i># Compulsory to students aiming for Distinction grade.</i> | Custom Program Proposal and UML Class Diagram | |

| Tuition Week | | | | |
|-----------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Week to release | Lecture Topic | Portfolio Task(s) | Description | Tentative Date |
| 7 | Introducing C++ | Supplementary Exercise | C++ Classes and Inheritance | Credit Task 2 dues on W10, Monday (11/11/2024 @ 11.59pm) |
| | | Credit Task 2 [3m] <i># Compulsory to students aiming for Credit grade.</i> | Console-based Game/Sport Tournament Management System (C++ Implementation) | |
| | | Supplementary exercise | Planetary Rover UML Class Diagram | |
| | | Supplementary exercise | Planetary Rover Code | |
| 8 | Resource Management in C++ | *Online Semester Test [25m] | Compulsory to attempt | Online Semester Test on W8, Monday 28/10/2024 @ 8am |
| | | Supplementary exercise | Robust Planet Rover | |
| | | Supplementary exercise | Case Study – Iteration 3 | |
| | | Supplementary exercise | Case Study – Iteration 4 | |
| | | Distinction Task 2 [2m] <i># Compulsory to students aiming for Distinction grade.</i> | Custom Program Sequence Diagram | Distinction Task 2 dues on W11, Monday (18/11/2024 @ 11.59pm) |
| 9 | Design Patterns | Supplementary exercise | Case Study – Iteration 5 | |
| 10 | Exceptions | Supplementary exercise | Case Study – Iteration 6 | Distinction Task 3 dues on W13, Monday (2/12/2024 @ 11.59pm). High Distinction Task dues on W14, Monday (9/12/2024 @ 11.59pm). |
| | | Distinction Task 3 [2m] <i># Compulsory to students aiming for Distinction grade. - Additional 8 marks to be evaluated by the assessment panel.</i> | Custom Program Unit Tests | |
| | | High Distinction Task [10m] | Plan Research (10 marks) | |
| 11 | Event-Driven Programming | *Pass Task 14 [5m] | Draft Learning Summary Report | Pass Task 14 dues on the same date as final portfolio submission. |
| | | Resit Test [25m] | Compulsory for student who failed the Online Semester Test | |
| | | Supplementary exercise | Case Study – Iteration 7 | Resit Test on W11, (Date and time to be confirmed) |

Final Portfolio Submission (PASS | CREDIT): **W13, Monday (2/12/2024 @ 11.59pm)**

Final Portfolio Submission (DISTINCTION | HIGH DISTINCTION): **W14, Monday (9/12/2024 @ 11.59pm)**