

SENG2200 PA3 - Marking Rubrik Overview

Students Note: This is a draft guide only, and subject to change once marking begins.

Project Aspects:

Production Line Design and Implementation

40%

Valid OO design for the Production Line, mapping the requirements to Objects, Objects to the required Structure and using OO design principles; making valid use of library Data Structures, etc.

Discrete Event Simulation Design and Implementation

25%

Valid Discrete Event Simulation Design, using valid OO design principles, patterns were applicable, making valid use of library Data Structures, etc. Handling Simulation Events such as Block, Starve, etc, correctly.

Calculations and Statistics Output

20%

Valid Statistics Calculations and Output formatting.

Report Task

15%

Valid Responses to Report Questions, formatted as a Report.

Note: Your design should demonstrate the use of *Inheritance* and *Polymorphism*, *Interfaces*, *Library Data Structures*, and good *Object Oriented Design Principles* and *Programming Practices*.

Deductions:

Grouped on Feedback as *Other*, with the exception of *Late* and *Coversheet* issues:

- Does not use Discrete Event Simulation up to -50%
 - *instead the implementation is based on Java concurrency, or multi-threading, and/or works in real time or time slices*
- Does not compile up to -40%
 - *including does not compile as per specification, or does not compile due to errors*
- Crashes on execution up to -40%
 - *including does not execute as per specification, crashes with unhandled exceptions, infinite loop, hang, etc*
- Results vary beyond expected ranges up to -30%
 - *The program outputs statistics that are not present or outside of the expected range*
- Violate or Poor OO-design principles up to -30%
 - *such as no 'extends', use of concurrency instead of DES, etc*
- The program provides a menu/interface for user input. up to -20%
 - *there is no specification requirement for a menu or any user interaction beyond the command line*
- Code form and Commenting Standards up to -10%
 - *valid and sufficient commenting, consistent formatting*
- Late per Day -10% p/day
 - *as per University Policy...*
- Missing Coversheet -5%

Adverse Circumstances Notes:

As per *University Policy*, any granted *Adverse Circumstances* submission **MUST** include the relevant *Adverse Circumstances forms* and *approval* within the submission, to be **VALID**.