Assessment Feedback Form

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| **Module** | 6SENG006C Concurrent Programming | | |
| **Module Leader** | Guhanathan P Guhanathan.p@iit.ac.lk | | |
| **Coursework** | Printing System - FSP Modelling & Java Concurrent Implementation | | |
| **Assessment Weight** | **50 %** | | |
| **Blackboard Submission** | **13:00, Thursday, 12/1/2023** | | |
| **Student** |  | **Mark %** |  |

GREEN: very good – excellent AMBER: okay – good

RED: fail – poor

1. **FSP Model of Printing System**

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| --- | --- | --- |
| **FSP Component** | **Comment** | **Mark** |
| **Printing System -**  FSP Process Composition Analysis & Design Form |  | **/ 5** |
| **FSP Printing System Model:**  Constants, Ranges & Sets. FSP processes:  Printer Student Technician  PrintingSystem.  Ensures Mutual Exclusion Correctness. |  | **/ 25** |
| **LTSA Screen Shots:**   1. “Edit” tab: FSP program 2. “Output” tab: after composition 3. “Output” tab: deadlock check 4. “Draw” tab: student LTS   “Animator” printer's locking actions:   1. all available (pre-locking) 2. all unavailable (post-locking) 3. all available (post-unlocking) |  | **/ 15** |
| **TOTAL** | | **/ 45** |

1. **Java Implementation of Printing System**

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| --- | --- | --- |
| **Java Class & Components** | **Comment** | **Mark** |
| **Printer**:  "implements ServicePrinter", encapsulated data, constructor,  “synchronized” methods, a valid monitor.  **Methods**:  "printDocument", "refillPaper", "replaceToner", “toString” |  | **/ 25** |
| **Printer User Threads:** "extends Thread", constructor, intitialise vars & calls "super(tg, n)", "run" method  Student PaperTechnician TonerTechnician |  | **/ 15** |
| **PrintingSystem:**  create & use 2 thread groups, create & share printer,  create & start 6 threads,  waits for 6 threads to terminate |  | **/ 10** |
| **Sample output** |  | **/ 5** |
| **TOTAL** | | **/ 55** |

1. **Additional General Comments (if appropriate)**

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| **Overall** |  |
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| **Revise/Improve** | |
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