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| **Criteria** | **Points** | **Description** | **Points Earned** |
| **Clarity and Cohesion (25 pts)** | | | |
| Organization | 10 | Clear structure and flow of the report, with sections logically arranged. Each question addressed in a clear manner or clearly marked within the report. |  |
| Introduction | 5 | Clear introduction that outlines the purpose and objectives of the assignment. Provides context for the chemical separator systems being analyzed and the role of the FFC controllers introduced in this system. |  |
| Explanation of Results | 10 | Clear and concise explanation of simulation results. Demonstrates understanding of design of feedforward controllers and relate its impact on the system. |  |
| **Technical Correctness (50 pts)** | | | |
| Python Implementation | 5 | Correct implementation of simulation and plotting using Python. Code is well-commented and organized. |  |
| ASPEN Dynamics Implementation | 10 | Correct implementation of simulation with the tasks activated as required. Correct usage of ISE plots. Correctness will be assessed based on results/plots discussed. |  |
| Design of FFC Controllers | 20 | Accurate discussion on design approach, logic of initial guesses, and tuning/optimization of controller's design. Accurate derivation and representation of relevant transfer functions. Correct correlation of general design equation of a FFC w.r.t the three systems provided. Correct application of control theory concepts. |  |
| Assessment of Controller Performance | 15 | Accurate calculation of key parameters of FFC controllers to explain their performances in each of the tasks. Demonstrates clear understanding of different FFC controller parameters. |  |
| **Quality of Report Presentation (25 pts)** | | | |
| Writing Style | 10 | Clear and concise writing style, free from grammatical errors. Proper use of technical terminology and language. |  |
| Figures and Tables | 10 | Figures are well-integrated into the report and effectively support the analysis. Tables are appropriately formatted and labeled. |  |
| Formatting and Layout | 5 | Consistent formatting throughout the report (font, size, spacing, etc.). Adequate use of headings, subheadings, bullet points for clarity. |  |
| **Total** | 100 |  |  |

**CHE322 – Project Part 3 Grading Rubric**