**OM 305**

**Test 1**

**Study Guide**

**as of 8/1/24**

The following types of problems will be on the Test 1:

***Quality Objectives in Product Design:***

1. Effects of building-in parallel redundancy

2. Calculate the value of MTBF, MTTR, Availability

***Statistical Process Control as Applied to Product Quality:***

3. x-charts: Calculate the UCL, LCL

4. p-charts: Calculate the UCL, LCL

5. R-charts: UCL, LCL

6. c-charts: UCL, LCL

***Waiting Lines***

7. Selected Operating characteristics

8. Probability of arrivals

9. Optimum cost solution between 1 and 2 channels

10. Utilization rate and idle time