# CASA0002: Urban Simulation – Coursework Mark Scheme

We are required to use the marking scheme set out by the University of London (which is A: 70 - 100%, B: 60 - 69%, C: 50 - 59%, Fail: 0 - 49%). For example, with the pass mark at 50%, marks in the 60%s generally seen as merit quality, with a mark of 70% indicating work of distinction quality, most marks fall into the narrow band from 50 to 70, with marks rarely awarded above 80%.

This is a guide of the marking criteria of your work.

**Part 1: London's underground resilience: 50 marks**

**I.- Topological network: 34 marks**
I.1.- Centrality Measures: **6** (2 per measure)
I.2. Measure(s) to assess impact: **8** (4 per measure)
I.3.- Node removal (Analysis): **20**
       (See criteria below for analysis)

**II.- Flows: weighted network: 14 marks**
II.1. Old vs new measure: **3**
II.2. Impact measure with flows: **3**
III.3. Experiment with flows: **8**

Good use of bibliography: **2**

---

**Part 2: Spatial Interaction models: 50 marks**

**III. Models and calibration: 18**
III.1. Spatial interaction models: **8**
III.2. Calibration of model: **10**

**IV. Scenarios: 30**
IV.1. Scenario A: **8**
IV.2. Scenario B: **12**
IV.3. Analysis: **10**

Good use of bibliography: **2**

---

Criteria for Analysis

Analysis: 20
       0-4: The student did not conduct an analysis, but simply described the model.
       5-9: The student performed a basic analysis, but this is not used, or not used appropriately, to support his arguments. There is no evidence that the student understands the problem, and the use of the analysis.
       10-14: The analysis is used appropriately to justify the discussion on the results, showing a basic understanding on how to use the methodology.
       15-17: The analysis shows that the student has a good command of the methodological tool.
       18-20: The analysis is exceptional and goes beyond what was seen in the practical sessions.