# IE406 Term Project Guideline

**General Requirements:**

You are expected to build a simulation model which addresses a real-world problem. Discussion with the instructor about your topic is strongly recommended! Prepare a report in the format of the Winter Simulation Conference (WSC) papers or other journal papers.

**Deliverables:**

* Each team will make a presentation and/or demonstrate the model.
* Final report:
* Refer to the Winter Simulation Conference proceedings. It normally consists of several parts: 1) Introduction and literature review; 2) Problem definition; 3) Analytical results/theoretical models; 4) Simulation configuration and results; 5) Conclusion and discussions.
* A preferable report tells a story. Keep in mind of the following questions: why do you choose this project; how do you collect, analyze and validate the data; how do you build the model; what does the logic flow look like; how do you verify & validate the model; have you done any sensitivity analysis & output analysis; what conclusion can you draw; what’s your suggestion; and so on.
* Submit the.alp file along with any other supporting files.
* A 30 seconds video clip of the model and one paragraph of the description of the projects (less than 200 words).

**Evaluation:**

* 70% written report.
* 30% project demonstration & presentation. Note that your classmates will evaluate your work (It counts for 40% of this category. The remaining 60% will be from the assessment of the instructor).
* Individual contribution will be considered through a confidential peer evaluation within the group.

**Project Evaluation Criteria:**

Project coring Criteria and Weights

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Challenge Factor  (Low, Medium, High) | 14 | 15 | 16 | 17 | 18 | | 19 | | 20 |
| DATA COLLECTION/  Parameters Justification | 4 | 5 | 6 | 7 | 8 | | 9 | | 10 |
| Problem Definition and description  (Clarity, Diagrams) | 4 | 5 | 6 | 7 | 8 | | 9 | | 10 |
| LOGIC FLOW AND THE MODEL | 9 | 10 | 11 | 12 | 13 | | 14 | | 15 |
| V&V; Output analysis; Optimization | 9 | 10 | 11 | 12 | 13 | | 14 | | 15 |
| Good presentation & demonstration | 24 | 25 | 26 | 27 | 28 | | 29 | | 30 |
|  |  |  |  |  |  | |  | |  |
|  | Total Score | | | | |  | |  | |