**Group Members:**  
*Name Surname, Name Surname, Name Surname*  
**Project Title:**  
*Your project title*

**1. Problem Definition and Objective**

Briefly state the aim of your project in one clear sentence. If you have made any general assumptions mention it here.

**2. Data Collection and Estimation (10 points)**

**Data Used:**

* Room capacities, course schedules, student numbers, building layouts… what else?
* Collected from where?

**Assumptions:**

* Did you remove any courses, why?
* Did you include all classrooms such as studios and labs ?
* You assumed the number of users in classroom is weighted to the size of the classroom? Or assumed the same weight?
* Similar assumptions here

**3. Final Mathematical Model (30 points)**

**Decision Variables:**  
Give your decision variables and indexes here with definitions and sets.

**Parameters:**

Give your parameters here such as distances, capacities etc. (given values)

**Objective Function:**  
Give your objective function

**Constraints:**

Give your constraints in mathematical form and then explanation. Example:

*Each professor can be assigned to teach at most 2 courses (or use at most 2 classrooms).*

**4. Model Implementation and Results (20 points)**

**Solver Used:**  
PuLP / Excel Solver / something else?

**Results (based on full dataset):**

Give the current solution for your dataset. (according to current assignment, how many seats are empty?)

Give your model’s solution.

**Interpretation:**  
Compare the two results. Explain what improved (e.g., fewer empty seats, better time utilization, reduced walking). Mention any trade-offs or unexpected outcomes.

**5. Validation and Sensitivity Analysis (10 points)**

Test your model with different input scenarios to check its robustness. Try extreme or edge cases to see if the model behaves logically and efficiently.

Examples:

* What if student numbers increase by 10%—can the current solution handle it?
* What is the maximum number of students your model can support without violating constraints?
* If the number of recycling points on campus is reduced, how does the average walking distance to the nearest point change?

**6. Conclusions and Recommendations**

Summarize what your model achieves (e.g., better allocation, reduced walking, balanced load). Suggest possible improvements (e.g., add real-time data, connect to IUS systems). Keep it brief and practical.

**APPENDICES (50 points)**

Give me the link of your OneDrive Folder, where you put your model.

In this folder there should be also your input files and most importantly **SOLUTION**.