**Project Guidelines**

1. Suggested topics:
2. A start-up airline company flying to several destinations with different aircraft types.
3. Total budget of the start-up company is $50 million. The start-up funds will be used for leasing/purchasing aircraft and operation expenses.
4. A network design for blood collection and distribution. This will be a non-profit organization has 2 million budget to design a blood collection and distribution network in the West Bank.
5. A network design to sell plastic toys in the West Bank. 97% of those toys are imported from Asia or Turkey and the remaining 3% are manufactured in Palestine. Products are available from toy stores and can be ordered from the Internet. The network should operate within the limit of certain budget.
6. Design a system to best operate a fleet of vehicle to supply seasonal materials to customers in middle east.
7. Design a network model for Olive Collection in a certain province in the West Bank. The Olive collecting company may have different types of tractors of various capacities and speeds.
8. The project should have the components of problem identification, litrature review, modeling, solution methods and computational results.
9. The project is expected to emphasize modeling and solving the identified problems as well as to consider other aspects such as computational efforts, solution implementation in practice, economic considerations, environmental impacts, etc.
10. The project should be “open-ended” to study other directly or indirectly involved issues using scenario analysis, sensitivity analysis and to consider possible model extensions.
11. Any topic you are interested in; especially suitable for operations, logistics, or management courses:
12. The report should have 10 to 20 pages. It should be in the format of an engineering report and may include:

a. Abstract or Executive Summary

b. Introduction

c. Problem description

d. Assumptions and limitations

e. LINGO or CPLEX code, if relevant, to solve the model.

f. Conclusions or Concluding Remarks

g. References

1. Each report may contain one page of explanations on contributions made by individual team members. This page, if presented, should be signed by all team members.
2. Presentation

a. Project presentations will take place from 2.00 pm to 4.30 pm on Wednesday, August

20, 2025.

b. Each team will have about 25 minutes for a group presentation.

c. Each team member is expected to present a portion of the project.