Project

1 PROJECT REQUIREMENTS

- 1. **START AND PROBLEM DEFINITION**: Set up a **team of 2 students** and choose a research topic related to **solving an optimization problem**.
- 2. **RELATED WORK**: Study recent scientific papers which present a method/algorithm/heuristic for solving the problem.
- 3. **PROPOSED APPROACH**: Develop a **metaheuristic algorithm** to address the problem (it can be a metaheuristic used in one of the previous labs or it can be one of the methods presented in one of the papers identified in step 2). Propose **a modified version** of the selected metaheuristic (by changing search operator, including a new component, hybridization with another method, etc.).
- 4. **COMPUTATIONAL EXPERIMENTS:** Perform **experiments** for the original metaheuristic and its modified version. Analyse comparative results.
- 5. **RESULTS:** A report should capture at least the following: problem definition, algorithm used (name, steps/pseudocode), parameter setting, comparative results of experiments, discussion of results, future improvements.

Points for the project: 150p

2 TO DO

1. Lab 9: Set up the team

What	When	Points
START AND PROBLEM DEFINITION	Lab9	-
D I DELATED WORK	1-1-10	25.
Present RELATED WORK	Lab10	25p
Present PROPOSED APPROACH	Lab11	25p
Present the idea		
Show the method implemented		
Present COMPUTATIONAL EXPERIMENTS	Lab12	25p
Present the dataset(s)		
Show preliminary experiments performed		
Project Presentations	Lab13 and Lab14	75p
 Present the approach 		
Discuss results		
Provide conclusions		
	Total	150p