

Advanced Algorithms Project

Implementing Different Algorithms using Programming Languages

First Semester 2025/2026

Problem Statement

Based on your understanding of the topics covered during this semester, you are required to use programming language (Java or Python) to implement as much covered algorithms as you can (at least one algorithm of each studied technique/category, including graph algorithms, greedy algorithms, etc.). The student can use different resources for writing the code, but he/she must be able to discuss the developed code in terms of understanding and modifying.

Format of project submission

- Title page (course name, student id and name, teacher name, year).
- Source code (with comments if you want).

Advanced Algorithms Project Rubrics for students' assessment

Statement	Total mark of statement	Student mark
Project delivered/discussed on time	2	
Student implement at least one algorithm of each category	3	
Code written correctly and tested	3	
Answer instructor understanding questions	6	
Answer instructor modifying questions	6	
	*20	

- The mark then converted out of 10