Teams can have up to two students.

Steps 1-4 are the same for all projects. Projects should use Sniper. Different is point 5 (A., B., C., D.)

- 1. Graphics for benchmarks from Lab3-6 with explanations.
- 2. Automate multiple runs of the simulator based on a configuration file (benchmark, nrCores, input size, with or without power).
- 3. Automate multiple reads outputs of the simulator and generate csv-files containing IPC, area, power, real CPU simulation time, nr. instructions simulated.
- 4. Automate aggregation of results for multiple benchmarks for multiple runs on the same configuration (average(IPC), average(area), average(power), average(real CPU simulation time), average(nr. instructions simulated)). Generate suggestive graphics.

5.

- A. Integrate a genetic algorithm for single and multiple objectives.
- B. Integrate a neural network in order to predict objectives.
- C. Integrate interpolation for computing objectives.
- D. Integrate different compilation flags for the benchmarks as configuration parameter. Automate running the simulator with: benchmark, nrCores, inputSize, with/without power, compilation flag

10-20 minute English presentation and Q.A. session.