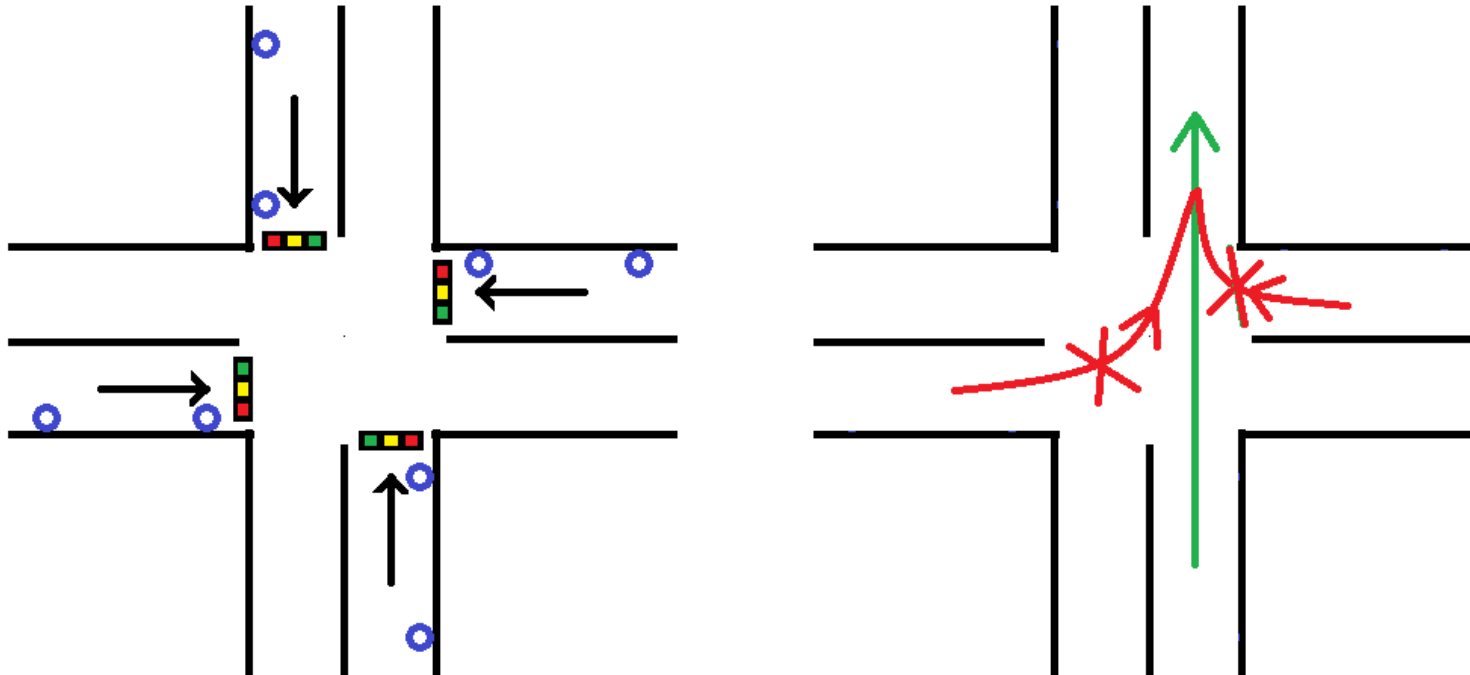


# ECE413 Project 1 – Traffic Light

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- Design and implementation of smart traffic light controller.
- Each direction has 4 lanes and can possibly have multiple lights as you wish.
- Adjust light order to avoid any intersecting paths (example in the left figure).
- Adjust light time based on 2 sensors at each light at 1<sup>st</sup> & 5<sup>th</sup> positions (illustrated in the right figure).



- Part A (2 weeks): System design, light algorithm, controller specs, FSM design, testbench, simulation. Part B (1 week): Synthesis, DFT, GL simulation.
- Deadlines: Part A: 8/12/2024. Part B: 15/12/2024.