



# 인하대학교



# Assignment #1

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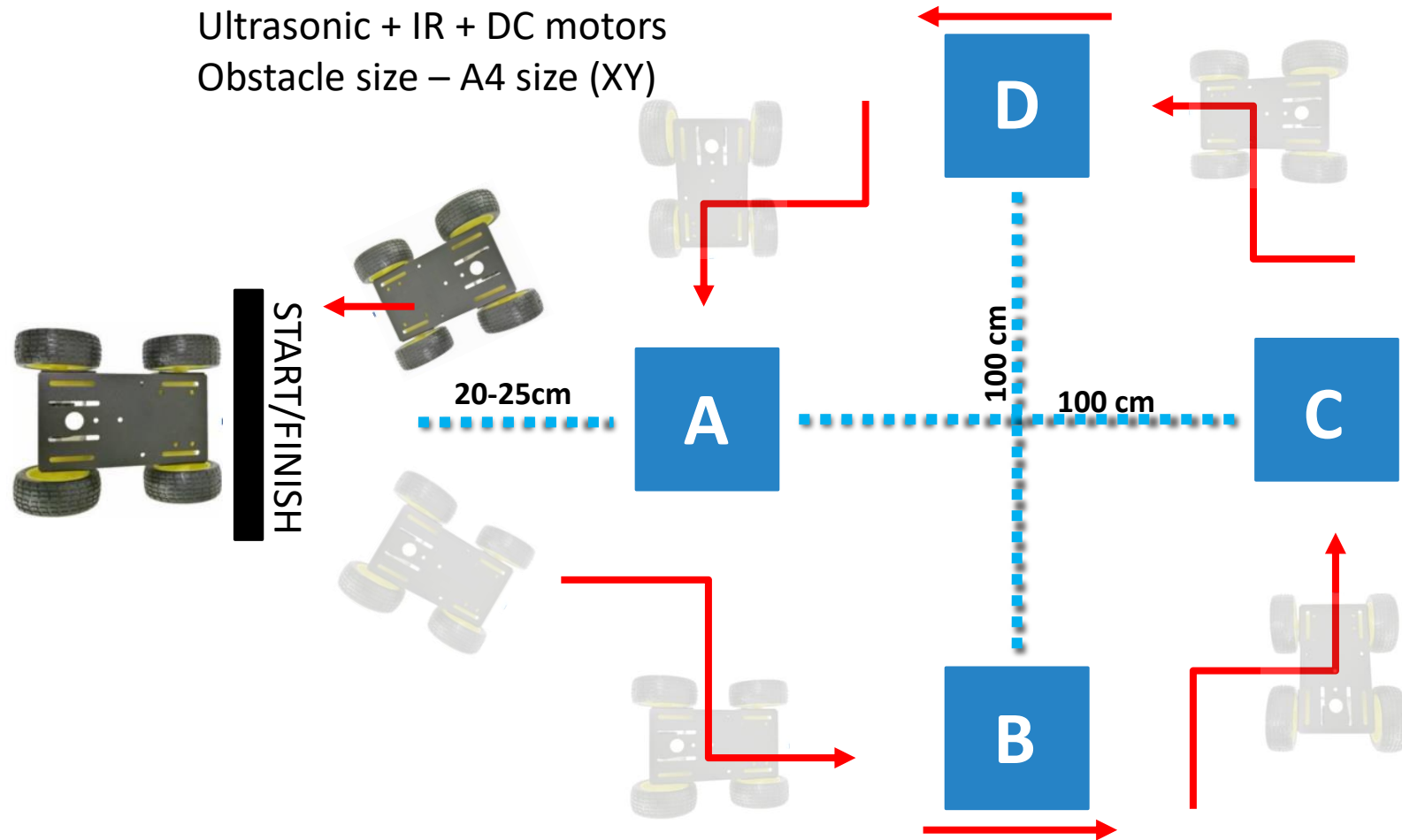
# Submission guide

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- ❑ Team assignment: 1 file per each team
- ❑ Only the team leader must submit it on behalf of the team
- ❑ You must submit a zip file:
  - ❑ Report – main goal, mission, explanation and results of the assignment
  - ❑ Source codes – c/c++, python codes of the project
  - ❑ Demo – videos, images or links for videos
- ❑ Format of the submission file:
  - ❑ Team\_number.zip > > > Ex) Team\_7.zip
- ❑ **Deadline: Demo day – March 3-4, file submission – March 6.**
- ❑ **Any identical projects are considered cheating!**

# Avoid the obstacles

Ultrasonic + IR + DC motors  
Obstacle size – A4 size (XY)



Avoid the obstacles

1. Move forward from start position.
2. If the obstacle is in 25 cm (Avoid) turn the car to any direction to find the free way to move.
3. Continue movement around the ABCD obstacles avoiding them.
4. At the end your car should stop at finish line
5. Use ultrasonic, DC motors and IR sensors to complete the task.
6. You have 3 attempts to complete the mission on the demo day.



# Team management & Report

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Submit the follow reports, which were designed to improve better team management

## 1. Assignment report:

\* Use the forms from Lecture slides and include the below aspects:

- Team name
- Role of team members of the team
- Team progress etc.
- Decisions

## 2. Team operating rules

- Make the team operating rules through brainstorming.
- Team name, brief team member introduction, main goal, Team mission statement, regular meeting schedule, explanation and results of the assignment.