

# ENGG 3960E Robotics Special Project

## Winter 2023-2024 (3 credits)

### Course Description:

This course is designed for developing both soft and hard skills for Robot Design Contest and robotics training. They will also assist in organizing and developing robotics workshops, training workshops, and contest.

### Learning Objectives:

Below are the learning goals and objectives for HKUST undergraduate students enrolled in this project:

- To learn the skills of mentoring in workshops and to transfer this skill to UG students who are interesting in robotics.
- To participate interactively in team discussions and decision-making
- To strengthen students' robotics skill sets
- To apply design thinking in organizing a competition
- To work and communicate effectively in a multi-disciplinary and multi-national team
- To learn professional and technical knowledge on robot design, research and development processes
- To learn soft skills in team management and working as a team

### Course Requirements:

- Students have to submit peer- and self-evaluations during the course period.
- Each student/ group is required to submit a project proposal and the final report to the Project Supervisor(s).
- All students must attend the Robot Design Contest as required
- All students should commit to the agreed due dates and respect the time devotion for all interaction – punctuality and good preparation are expected

### Grading Scheme:

This is a 3-credit course, graded by letter. Each student must complete all tasks on time and meet the course requirements stated above. Also, the required tasks must be satisfied by the Project Supervisor(s).

### Assessment weighting:

Work of developing robotics workshops, training workshops, and contest: 60%

Peer Evaluation: 25%

Final self-reflection report and presentation: 15%