The Hong Kong University of Science and Technology

[Course Title] Introduction to Robotics

[Course Code] MECH 4710

[No. of Credits] 3

[Any pre-/co-requisites] MECH2020

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Course Description

Introduce the mechanical structure of industrial robots as well as the spatial description and transforms of the robot, forward kinematic and inverse kinematic equations for different robotic structures, and dynamics of the robot manipulator. The final project will be directly on operating a robotic arm.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
Mid-Term	20%
Assignment	10%
Group Project	70%

Required Texts and Materials

[List required textbooks, readings, and any other materials]

Introduction to Robotics, by John J. Craig 3 Edition

(For references only. You don't need to buy the book. The class slides should be sufficient.)

[Optional] Additional Resources

[List any additional resources, such as online platforms, library resources, etc.]

N/A