COURSE DETAIL

STATICS AND DYNAMICS
Country Hong Kong
Host Institution Hong Kong University of Science and Technology (HKUST)
Program(s) Hong Kong University of Science and Technology
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Engineering
UCEAP Course Number 114
UCEAP Course Suffix
UCEAP Official Title STATICS AND DYNAMICS
UCEAP Transcript Title STATICS & DYNAMICS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course examines the analysis of the equilibrium and dynamic behavior of mechanical systems. It covers equilibrium of particles and of rigid bodies; distributed forces; analysis of structures, including, trusses, frames, cables and beams; kinematics of particles; kinetics of particles, Newton's second law, energy, momenta, impact dynamics; systems of particles; kinematics of rigid bodies; and kinetics of rigid bodies in two and three dimensions.

Language(s) of Instruction
English

Host Institution Course Number
MECH2020

Host Institution Course Title
STATICS AND DYNAMICS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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