

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

[Print](#)