

# COURSE DETAIL

## AIRCRAFT PERFORMANCE AND STABILITY

**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)**

Engineering

**UCEAP Course Number**

135

**UCEAP Course Suffix****UCEAP Official Title**

AIRCRAFT PERFORMANCE AND STABILITY

**UCEAP Transcript Title**

AIRCRAFT PERF& STAB

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## **Course Description**

This course examines flight dynamics, with emphasis on aircraft performance and stability. It covers the fundamentals of flight dynamics, focusing more especially on the key concepts pertaining to flight performance and stability; the methodological tools (fundamental theories and mathematical models) that are commonly used for analyzing the performance and stability characteristics of aircraft; and how these theoretical and methodological knowledge are used across aerospace industries for the safety and efficiency of aircraft can be maximized.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

MECH3670

### **Host Institution Course Title**

AIRCRAFT PERFORMANCE AND STABILITY

### **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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