COURSE DETAIL

ENGINEERING DESIGN
Country United Kingdom - England
Host Institution University College London
Program(s) English Universities,University College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 130
UCEAP Course Suffix
UCEAP Official Title ENGINEERING DESIGN
UCEAP Transcript Title ENGINEERING DESIGN
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course studies engineering design to develop core practical, theoretical, and computational engineering skills, and discusses the role and relationship between them. The course develops a wider appreciation of how engineering design shapes the made world. Given a product brief set by the course tutor, the students are required to design, analyze, build, and test a physical prototype, and then show how it meets the design brief. Students learn to interpret a design brief, design techniques, and methodologies using computational design and analysis tools such as CAD and MATLAB analysis; materials selection; using mechanical tools; and safe workshop practice. Students also design and make a physical prototype and present the analysis, both technical and environmental, that demonstrates the solution to the design brief.

Language(s) of Instruction
English

Host Institution Course Number
MECH0008

Host Institution Course Title
ENGINEERING DESIGN

Host Institution Course Details

Host Institution Campus
University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mechanical Engineering

Course Last Reviewed

Print