

# COURSE DETAIL

## DEEP LEARNING

**Country**

United Kingdom - England

**Host Institution**

Imperial College London

**Program(s)**

Imperial College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering

**UCEAP Course Number**

137

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

DEEP LEARNING

**UCEAP Transcript Title**

DEEP LEARNING

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course introduces students to the fundamentals of deep learning and illustrates how it is contributing to the practical design of intelligent machines. Deep learning is currently the most active area of research and development and in high demand for experts by hi-tech start-ups, large companies as well as academia. It is the preferred approach for modern AI and machine learning in any domain. This course demonstrates how deep learning techniques enable us to automatically extract features from data so as to solve predictive tasks, such as speech recognition, object recognition, machine translation, question-answering, anomaly detection, medical diagnosis and prognosis, automatic algorithm configuration, personalization, robot control, time series forecasting, and much more.

### Language(s) of Instruction

English

### Host Institution Course Number

ELEC60009

### Host Institution Course Title

DEEP LEARNING

### Host Institution Campus

Kensington

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Department of Electrical Engineering

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