

COURSE DETAIL

ADVANCED DEEP LEARNING SYSTEMS

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

143

UCEAP Course Suffix**UCEAP Official Title**

ADVANCED DEEP LEARNING SYSTEMS

UCEAP Transcript Title

ADV DEEP LEARN SYS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The widespread adoption of deep learning methods has been largely driven by the availability of easy-to-use systems such as PyTorch and TensorFlow. However, it is less common for users to explore the internals of the libraries and understand how they function, as well as how to optimize the high-level code for hardware systems. When deep learning algorithms are deployed into custom hardware, they are often modified to run faster and more efficiently. This course provides students with the basic concepts and principles of modern deep learning systems, and it explores how optimizations can be applied from both the software and hardware aspects of the system stack.

Language(s) of Instruction

English

Host Institution Course Number

ELEC70109

Host Institution Course Title

ADVANCED DEEP LEARNING SYSTEMS

Host Institution Course Details

<https://view.officeapps.live.com/op/embed.aspx?src=https%3A%2F%2Fintra.net%2Eee%...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Electrical Engineering

Course Last Reviewed

2025-2026

[Print](#)