

## COURSE DETAIL

### DEEP LEARNING

**Country**

Korea, South

**Host Institution**

Korea University

**Program(s)**

Korea University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

158

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

DEEP LEARNING

**UCEAP Transcript Title**

DEEP LEARNING

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course delves into the theoretical underpinnings and practical applications of deep neural networks. Deep learning has revolutionized industries ranging from healthcare to finance, driving advancements in natural language processing, computer vision, and autonomous systems.

From understanding fundamental concepts to implementing advanced architectures like convolutional and recurrent networks and transformers as well, this course covers both theoretical knowledge and hands-on experience essential for navigating the complexities of deep learning.

Topics include Deep learning basics, Neural networks, Training neural networks, Convolutional neural networks, Recurrent neural networks, Transformers, Applications: NLP, Applications: CV, Generative models.

## Language(s) of Instruction

English

## Host Institution Course Number

COSE 474

## Host Institution Course Title

DEEP LEARNING

## Host Institution Course Details

<https://infodepot.korea.ac.kr/lecture1/lecssubjectPlanView.jsp?year=2025&term=2R...>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

## Course Last Reviewed

2025-2026

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