

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/lecschedulePlanView.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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