이화여자대학교
EWHA WOMANS UNIVERSITY

Syllabus (2022-Summer)

Course Title	Introduction to Artificial Intelligence & Deep Learning	Course No.	
Credit	3 credits	Hours	45 Hours
Class Time Classroom	Mon to Thr Classroom TBA		
Instructor	Name: Hyun-Seok Park	Department of Computer Science & Engineering	
	E-mail: neo@ewha.ac.kr	Phone: 02-3277-3513	
Office Hours Office Location	Engineering Building A 222-2		

I. Course Overview

1. Course Description

In this course you will learn what AI is, explore applications of AI, understand terms like machine learning, deep learning and neural networks. This course does not require any previous programming or computer science skills. You will learn Python to practice various examples in this introductory course on artificial intelligence.

2. Prerequisites

None

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
60%	10%	30%	%	%

4. Course Objectives

The objective of this course is to provide students with a sound and comprehensive understanding of artificial neural networks and machine learning.

5. Evaluation Systems

☐ Relative evaluation ■ Absolute evaluation (for Ewha International Summer College students only) ☐ Others

Midterm Exam	Final Exam	Quizzes	Presentation	Projects	Assignments	Participation	Others
30%	40%	%	%	%	20%	10%	%

II. Course Materials and Additional Readings

1. Required Materials

Natural Language Processing with Python – NLTK, Steven Bird 외, (https://www.nltk.org/book/)

2. Supplementary Materials

3. Optional Additional Readings

But what is a neural network? | Chapter 1, Deep learning, 3brown1blue

- https://www.youtube.com/results?search_query=3brown1blue+what+is+a+neural+network

III. Course Schedule

Day	Date	Topics & Class Materials, Assignments
Day 1	(6/30)	Course Overview
Day 2	(7/4)	Python Lab #1
Day 3	(7/5)	Python Lab #2
Day 4	(7/6)	Language Processing and Python
Day 5	(7/7)	Natural Language Understanding
Day 6	(7/11)	Accessing Text Corpora and Lexical Resources
Day 7	(7/12)	Writing Structured Programs
Day 8	(7/13)	Mid Term Exam
Day 9	(7/14)	Introduction to Machine Learning
Day 10	(7/18)	Supervised Learning
Day 11	(7/19)	Unsupervised Learning
Day 12	(7/20)	Introduction to Deep Learning
Day 13	(7/21)	Python Lab: Training MNIST dataset / 1
Day 14	(7/25)	Python Lab: Training MNIST dataset / 2
Day 15	(7/26)	Final Exam
Makeup Classes 1	(mm/dd)	
Makeup Classes 2	(mm/dd)	

IV. Special Accommodations

* According to the University regulation section #57-3, students with disabilities can request for special accommodations related to attendance, lectures, assignments, or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' request, students can receive support for such accommodations from the course professor or from the Support Center for Students with Disabilities (SCSD). Please refer to the below examples of the types of support available in the lectures, assignments, and evaluations.

Lecture	Assignments	Evaluation
. Visual impairment: braille, enlarged reading materials . Hearing impairment: note-taking assistant . Physical impairment : access to classroom, note-taking assistant	Extra days for submission, alternative assignments	. Visual impairment: braille examination paper, examination with voice support, longer examination hours, note-taking assistant . Hearing impairment: written examination instead of oral examination . Physical impairment: longer examination hours, note-taking assistant

- Actual support may vary depending on the course.

* The contents of this syllabus are not final—they may be updated.