1. Artificial Intelligence

Dates: **Aug. 5 - 17, 2021**

Credits: **3**

Language: **English**

Delivery: **Blended** online **– synchronous and asynchronous**

Total Hours: **54**

Tuition Fees: **USD 300 (Online)**

*Tuition waiver for AU partner universities

Start here to learn cutting-edge Artificial Intelligence (AI) technologies at Asia University, one of the world's best institutions of higher education. This program is for those who want to become high-valued data scientists in the future. So, come to enhance your career competence and give yourself an opportunity to meet and interact with international students around the world. Artificial Intelligence is not only the media portrayal of this subject but also the leading edge of software solutions. This field of computer science is useful for data managers, engineers, researchers, and machine learning developers.

About the Program

You will learn programming skills, deep learning methods, and how to successfully use AI technology to start projects. You will learn to program using the TensorFlow framework. You will not only learn AI's software stack, but also the application of AI in real situations. After completing the course, you will have a data product to show to potential employers or educational institutions, indicating your expertise in artificial intelligence.

The Program Features

During the three-week online study, you will attend classes for six hours a day and participate in problem-based AI projects. A group of TAs from Asia University will accompany you in the planned activities and throughout the entire learning process so as to provide you with adequate assistance.

Curriculum for Artificial Intelligence

Course Title	Hours	Module Components
Opening Ceremony & Introduction to the Course	3	Lecture
Introduction to the AIdea Platform	3	Lecture
Colab & Python Basics	6	Hands-on Tutorial
Data Science Basics with Numpy & Pandas	6	Hands-on Tutorial
Machine Learning Basics with Scikit-learn	6	Hands-on Tutorial
Deep Learning Basics with TensorFlow	6	Hands-on Tutorial
Image & Video Processing	3	Lecture
Recommendation System Basics	3	Lecture
Automated Optical Inspection Basics	3	Lecture
Introduction to the AIdea Projects	3	Lecture
Final Project Representation	6	Online Meeting
Panel Discussion	3	Online Meeting
Summary & Closing Ceremony	3	Online Meeting
Total	**54**	

Module Components	Contact hours per week	Remarks
Lecture	9	-
Hands-on tutorial	15	-
Online Meeting	3	-

Assignment Method	Percentage (in %)	Remarks
Assignments	30	-
Final Project	40	-
Others	30	Participation

For Artificial Intelligence program, please visit the College webpage at

http://www.ccs.asia.edu.tw/bin/home.php?Lang=en

For all Summer Programs, please visit the International College webpage at

https://ci3.asia.edu.tw/files/11-1014-6758-1.php?Lang=en