

Course Structure for M.A. Program
Graduate Institute of AI Interdisciplinary Applied Technology
National Taiwan Normal University

| Adaptive to Class of | Required Credit(s) | Elective Credit(s) | Free Elective Credit(s) | Minimum Total Credits for Graduation |
|----------------------|--------------------|--------------------|-------------------------|--------------------------------------|
| 112 | 3.0 | 15.0 | 6.0 | 24.0 |

Note: The first alphabet "E" on the course name refers to the course in English as a medium of instruction

I. Required Courses: 3.0 credits are required

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|-------------|-------------|-----------|--------------|-------------------|--|
| | | | Lecture Hour | Lab/Practice Hour | |
| C0C8001 | 1 E Seminar | 1.0 | 0.0 | 2.0 | This course must be retaken with a passing score for 3 times |

II. Elective Courses: 15.0 credits are required

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|-------------|---------------------------------------|-----------|--------------|-------------------|------|
| | | | Lecture Hour | Lab/Practice Hour | |
| AIC8001 | 1 E Computer Vision | 3.0 | 3.0 | 0.0 | |
| AIC8002 | 2 Digital Still Camera Design | 3.0 | 3.0 | 0.0 | |
| CSC0001 | 3 Data Mining | 3.0 | 3.0 | 0.0 | |
| CSC0012 | 4 Speech Processing | 3.0 | 3.0 | 0.0 | |
| CSC0015 | 5 Advanced Computer Architectures | 3.0 | 3.0 | 0.0 | |
| CSC0023 | 6 Natural Language Processing | 3.0 | 3.0 | 0.0 | |
| CSC0039 | 7 Machine Learning | 3.0 | 3.0 | 0.0 | |
| CSC0049 | 8 Advanced Computer Graphics | 3.0 | 3.0 | 0.0 | |
| CSC0072 | 9 Information Security | 3.0 | 3.0 | 0.0 | |
| CSC9004 | 10 Introduction to Internet of Things | 3.0 | 3.0 | 0.0 | |
| CSC9005 | 11 E Data Visualization | 3.0 | 3.0 | 0.0 | |
| AEC8018 | 12 E Machine Learning | 3.0 | 3.0 | 0.0 | |
| AEC8058 | 13 E Deep Learning | 3.0 | 3.0 | 0.0 | |
| AEC8059 | 14 E Reinforcement Learning | 3.0 | 3.0 | 0.0 | |
| AIC8003 | 15 Advanced Image Processing | 3.0 | 3.0 | 0.0 | |
| AIC8004 | 16 Artificial Neural Network | 3.0 | 3.0 | 0.0 | |
| AIC8005 | 17 Parallel Computing | 3.0 | 3.0 | 0.0 | |
| AIC8010 | 18 E Evolutionary Computation | 3.0 | 3.0 | 0.0 | |
| AIC8009 | 19 DSP Architecture Design | 3.0 | 3.0 | 0.0 | |

III. Free Elective Credits: 6.0 credits are required