

Course Structure for Ph. D 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	12.0	3.0	18.0

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: 12.0 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	
CSC0015	3 Advanced Computer Architectures	3.0	3.0	0.0	
CSC0023	4 Natural Language Processing	3.0	3.0	0.0	
CSC0039	5 Machine Learning	3.0	3.0	0.0	
CSC0049	6 Advanced Computer Graphics	3.0	3.0	0.0	
AEC8018	7 E Machine Learning	3.0	3.0	0.0	
AEC8058	8 E Deep Learning	3.0	3.0	0.0	
AEC8059	9 E Reinforcement Learning	3.0	3.0	0.0	
AIC8005	10 Parallel Computing	3.0	3.0	0.0	
AIC8004	11 Artificial Neural Network	3.0	3.0	0.0	
AIC8003	12 Advanced Image Processing	3.0	3.0	0.0	
AIC8010	13 E Evolutionary Computation	3.0	3.0	0.0	
AIC8009	14 DSP Architecture Design	3.0	3.0	0.0	

III. Free Elective Credits: 3.0 credits are required