

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
114	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	
AIC8003	2 Advanced Image Processing	3.0	3.0	0.0	
AIC8004	3 Artificial Neural Network	3.0	3.0	0.0	
AIC8006	4 Introduction and Application of Internet of Things	3.0	3.0	0.0	
AIC8007	5 Advanced Computer Architectures	3.0	3.0	0.0	
AIC8008	6 E Machine Learning	3.0	3.0	0.0	
AIC8009	7 DSP Architecture Design	3.0	3.0	0.0	
AIC8010	8 E Evolutionary Computation	3.0	3.0	0.0	
AEC8058	9 E Deep Learning	3.0	3.0	0.0	
AEC8059	10 E Reinforcement Learning	3.0	3.0	0.0	
CSC0023	11 Natural Language Processing	3.0	3.0	0.0	
CSC0049	12 Advanced Computer Graphics	3.0	3.0	0.0	
C0C8002	13 Industry Internship	3.0	3.0	0.0	
AIC8002	14 Digital Still Camera Design	3.0	3.0	0.0	
AIC8005	15 Parallel Computing	3.0	3.0	0.0	
AIC8011	16 Smart Video System Design	3.0	3.0	0.0	
AIC8012	17 AI Systems Demonstration and Implementation	3.0	3.0	0.0	
AIC8014	18 Intelligent Long-Term Care and Healthcare Information Systems	3.0	3.0	0.0	
AIC8013	19 AI Security	3.0	3.0	0.0	
AIC8016	20 Computer Graphics and 3d Camera System Integration	3.0	3.0	0.0	
AIC8015	21 Machine Learning and Applications in Image Recognition	3.0	3.0	0.0	

III. Free Elective Credits: 3.0 credits are required