Course Structure for Ph. D Program
Department of Mechatronic Engineering National Taiwan Normal University

I.Course Works & Program Requirement

Required Credits	Elective Credits	Total Credits
4	18	22

II.Details about the Course Works

Required Courses:

Course-Level	Term	Course Name	Credit	Instructor	Note
PhD	Fall	Seminar (I)-Doctor	1	Shun-Tong Chen	Course Taught in English
PhD	Spring	Seminar (II)-Doctor	1	Shun-Tong Chen	Course Taught in English
PhD	Fall	Seminar (III)-Doctor	1	Shun-Tong Chen	Course Taught in English
PhD	Spring	Seminar (IV)-Doctor	1	Shun-Tong Chen	Course Taught in English

Elective Courses:

Level	Term		Course Name	Credit	Instructor	Note
MA/PhD	Fall	Precision Machinery	Advanced Engineering Mathematics	3	Chun-Ta Chen	
MA/PhD	Fall		Advanced Thermodynamics	3	Tien-Li Chang	
MA/PhD	Fall		Advanced Vibration Engineering	3	Chii-Rong Yang	
MA/PhD	Fall		Optimization	3	Chuan-Hsi Liu	
MA/PhD	Fall		Experimental Design Method	3	Chuan-Hsi Liu	
MA/PhD	Fall		Advanced Mechanical Dynamics	3	Chun-Ta Chen	
MA/PhD	Fall		Micro-Joining Engineering	3	Chin-Pao Cheng	
MA/PhD	Fall		Precision Micro Manufacturing Engineering	3	Shun-Tong Chen	
MA/PhD	Fall		Advanced Heat Transfer	3	Tien-Li Chang	
MA/PhD	Fall		Convection Heat Transfer	3	Tien-Li Chang	
MA/PhD	Fall		Engineering Statistics	3	Ming-Jenq Twu	
MA/PhD	Fall	Opto-Mechatronics	Advanced Engineering Mathematics	3	Chun-Ta Chen	
MA/PhD	Fall		Nonlinear Control Systems	3	Yu-Sheng Lu	
MA/PhD	Fall		Optical Sensing Techniques and Signal Processing	3	Gao-Wei Chang	

MA/PhD	Fall		Remote Sensing and Control System	3	Mei-Yung Chen	
MA/PhD	Fall		Microprocessor Controlled Systems	3	Yu-Sheng Lu	
MA/PhD	Fall		High Power Semiconductor Devices	3	Chun-Hu Cheng	
MA/PhD	Fall		Adaptive Control	3	Chun-Ta Chen	Course Taught in English
MA/PhD	Fall		Engineering Statistics	3	Ming-Jenq Twu	

Course syllabi are available：http://courseap.itc.ntnu.edu.tw/acadmOpenCourse/index.jsp