National Pingtung University of Science and Technology
Graduate School of Mechanical Engineering Course Plan (2018)

Academic Year	1st Academic Year						2nd Academic Year						Credits Total
Semester	1st semester			2nd semester			1st semester			2nd semester			
Course Type	Course	Code	Credits/ Hours	Course	Code	Credits/ Hours	Course	Code	Credits/ Hours	Course	Code	Credits/ Hours	
Required Courses							Thesis	30057	6/6				
Sub-Total									6/6				6
Elective Courses	Computer-aided Mold Flow analyses	30314	3/3	Microchip Fabrication Technology	40098	2/2							
	Powder Technology	40581	3/3	Practice of Microchip Fabrication Technology	40099	1/2							
	Computer-Aided Mechanical Structural Analysis	55071	3/3	Experimental Model Analysis	55092	3/3							
				Theory and Analysis of Failure	40579	3/3							
	Theory and Application of Precision Manufacturing	55104	3/3	Signal Processing	40588	3/3							
				Physical Metallurgy	40402	3/3							
		40879	3/3	The Design and Trend of Original Solar Cell	40458	3/3							
	Structural Vibration	40307	3/3										
	Materials Science	40492	3/3	Introduction to Non-traditional Machining	22032	3/3							
	Technical English	20003	3/3										
	Reading	40318	2/2	Quality Engineering	30670	3/3							
	Artificial Intelligence	40319	1/2	Machine Vision technology and application	21133	3/3							
	Chip Integrated Design Practice of Chip Integrated Design	40661	3/3	Digital image processing and internship	30671	3/4							
	Advanced Numerical Analysis	20038	3/3										
		30669	3/3										
	Engineering Statistics	23082	3/3										
	Human Machine Interface	30039	1/2										
	Green innovative design Seminar												
Sub-Total			40/42			30/32							70

Note:All students have to acquire at least 36 credit points, including 6 credit points for required courses and at least 30 credit points for elective courses, before graduation.