National Pingtung University of Science and Technology Academic Year 2019, Four-Year Program, Department of Mechanical Engineering

Academic Year Semester Course Type				1st Acad	lemic Year	- 6		2nd Academic Year							
		1st seme	ster		2nd semester			1st semester			2nd semester				
		Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours		
Required Courses	University	Physical Education(1) General Education Student Life Service Education English Listening & Speaking Practice101 Foreign Language Proficiency Test(註 2) Chinese(1) Freshman English(1) General Physics(1)	01333 01026 01004 01017 01003 01023 01001	1/2 2/2 0/2 1/2 0/0 2/2 2/2 3/3	Physical Education(2) General Education Student Life Service Education English Listening & Speaking Practice102 Chinese(2) Freshman English(2) Calculus(1)	01334 01026 01004 01018 01088 01087	1/2 2/2 0/2 1/2 2/2 2/2	Physical Education General Education	01206 01026	1/2 2/2	Lectures on General Education(註 3) Physical Education General Education Constitution Special Projects(1)	01024 01206 01026 01027	1/2 1/2 2/2 2/2 2/2		
	College	General Physics Lab.(1) Computational Thinking and Information Technology Applications	05023 05081	1/2 0/2	General Chemistry(1) General Chemistry Lab.(1)	05020 05021	3/3 1/2								
	Department	Fundamental mathematics Practical Training in Factory Computer-Aided Mechanical Drawing	22222 20048 21544	3/3 1/2 3/3	General Physics(2) Applied Mechanics Computer Programming Language and Practice	20777 23068 23043	3/3 3/3 3/4	Engineering Mathematics(1) Application Electronics Lab. Mechanics of Materials Materials of Engineering Fundamental Experiments in Materials	20040 22390 40306 20036 21350	2/2 3/4 3/3 3/3 1/2	Manufacturing Processes and Systems Automatic Control Lab. Elements of Mechanism(1) Precision Measurement of internship Introduction of Thermal Engineering	21570 22391 22392 21057 23069	3/3 3/4 3/4 2/3 3/4		
Sub	 -Total			19/27			24/30			15/18			20/28		
Elective Courses					Engineering Graphics and Practice Advanced Practical Training in Factory	22397 22398	2/3	Dynamics Literature Computer Numerically Controlled Machine Tools Practice of Computer Numerically Controlled Machine Tools Thermal and Fluid Mechanics Lab.	20653 21298 21557	3/3 1/2	Mechanical Vibration Introduction to Energy The Techniques of Automatic Engineering Advanced computer numerical controlled machine tools internship Engineering Mathematics Graphical controlling software for design and application(1) Robotics	21131 22396 20307	3/3 3/3 3/3 3/4 3/3 3/4		
Sub-Total							3/5			10/12			21/23		

National Pingtung University of Science and Technology

Academic Year 2019, Four-Year Program, Department of Mechanical Engineering

Academic Year			d Academic Year		4th	Academ	nic Year							
Semester		1st semester			2nd semester			1st semester			2nd semester			Credits
Course Type		Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours	Courses	Code	Credits/ Hours	Total
Required Courses	University	General Education	01026	2/2	General Education	01026	2/2							
	College	Special Projects(2)	22367	1/2	Special Projects(2) Ethics in Engineering	22368 05067	1/2 1/2							
	Department	Elements of Mechanism(2) Computer Aided Fluid Mechanics and Practice	22393 22395	3/4 3/4				Internship(4.5 months)	20584	9/18	Internship(4.5 months)	20584	9/18	
Sub-	Total			9/12			4/6			9/18				100
Elective	Courses	Practice for Robotic Manipulators(特色) Mechanism Design in Robot (特色) Mechanism Design Practice	23076 23073 23077 20445 23084 20154 20155 23265	3/3 3/4 3/3 3/4 3/3	Factory Management Introduction to Biomedical Engineering Practice of Computer Aided Engineering Flexible Electronics Process Micro/Nano Manufacturing technology Machine Vision technology and application Mechanical Behaviors of Materials Multi-Axis CNC Machining Technology and Practicing (2) Green Iinnovative Design CPLD Digital Electronics and Practice Fixture-Jig Design and Manufacturing Aboratory(2) Programmable Logic Controller internship Mechatronics Integration Practice of Mechatronics Integration The Techniques of Robot Arm The Techniques Practices of Robot Arm	21290 20200 22403 22632 22416 21133 20343 23078 23082 23083 23086 55146 55147 F0076 F0077	3/3 3/3 3/4 3/3 3/3 3/3 3/3 3/4 3/4 3/4	Computer Aided Mechanical Structural Analysis Mechatronics Mechatronics and lab Applications of Smart Sensors for Robotic Arm(微型) Introduction to Machine Vision for Robotic Arm(微型) The Techniques and Practices of Robot Arm Assembly Operation(微型) The Techniques and Practices of Robot Arm Applied to the Deep Processing of Agricultural Products(微型) The Techniques of Robot Arm (深碗課程) Artificial Intelligence Application in Robotic Arm Artificial Intelligence Application in Robotic Arm Practices	. M0054		Off-campus internship Polymer Science and Engineering The concept of automatic technique	22818 20643 22978	9/18 3/3 2/2	
Sub-Total		in Robot(特色)		40/46			44/51			15/10			14/23	147
Sub-	10181			40/46			44/51			15/18			14/23	14/

Notes:

- 1. The minimum credits for graduation are 128, including 100 required credits and 28 elective credits for undergraduate students, respectively.
- 2. The course "Foreign Language Proficiency Test" will be offered every semester, and students have to follow the regulation of the course and pass it before graduation.
- 3. Students have to take "Lectures on General Education" (one credit) before graduation. These lectures are offered irregularly, depending on the order of department.

 4. Students have to take "General Education" courses, including two courses regarding "Humanities", three courses regarding "Social Science" and one course regarding "Nature and Life Science".