

National Kaohsiung University of Applied Sciences
Industrial Engineering and Management Department, College of Engineering
Curriculum of Two-Year Program in Academic Year 104

Passed at Department Curriculum Committee Meeting on 18 Mar, 2014

Passed at Department Affairs Meeting on 18 Mar, 2014

Passed at College Curriculum Committee Meeting on 4 Apr, 2014

Passed at University Curriculum Committee Meeting on ○○ ○○, ○○

Passed at Academic Affairs Meeting on ○○ ○○, ○○

Year		1 st academic year		2 nd academic year	
Semester		Semester 1	Semester 2	Semester 1	Semester 2
University required common courses (8/16)		Historical jurisprudence group 2/2 Physical Education(1st) 0/2 Service Learning(1st) 0/2.5	Advanced practical English 2/2 Applied Writing & practice 2/2 Physical Education(2nd) 0/2 Service Learning(2nd) 0/2.5	Genera course 2/2	
Total		2/6.5	4/8.5	2/2	
Department required professional courses (44/43+320)		Calculus3/3 Introduction to technology management3/3 Statistics(1st) 3/3 Human factor3/3 Economics 3/3 Production management 3/3	Practice Project(1st) 1/2 Statistics(2nd) 3/3 Decision making analysis under multi-objectives3/3 Production scheduling3/3 Introduction to enterprise resource planning3/3 Programming and application3/3 Introduction to service science and innovation3/3	Practice Project(2nd) 1/2 Quality management 3/3	Off-Campus internship 3 credit
Total		18/18	19/20	4/5	3/320
Department elective professional courses (20credits)	Basis Elective	Off-campus internship(1st) 9 credits	Off-campus internship(2nd) 9 credits		
	Human Factors and production manufacturing program	Engineering graphics3/3 Work study3/3	Industrial automation3/3 Facilities planning 3/3	Physiology foundations in H. F. engineering3/3 Industrial safety and hygiene3/3	Project management 3/3 Lean production amd management3/3 Factory management practice3/3

Statistic quality management and Quantitative decision making program		Operations research 3/3	Performance management3/3 Total quality management 3/3 Introduction to taguchi-method3/3 Regression Analysis3/3 Statistical and quality managerial package3/3	Sampling survey3/3 Experimental design3/3 Reliability analysis 3/3
Industrial management and electronic program	Managerial mathematics3/3 Database system 3/3 Accounting 3/3	Materials management3/3 Logistics management3/3	E-commerce3/3 Supply chain management 3/3 Business policy-making analysis3/3 Industrial operation and improvement3/3	
Service innovation and technology management program		Introduction to innovative product R&D management3/3	Introduction to technology and innovation management3/3 Introduction to technology transfer and evaluation management3/3 Introduction to innovation and intellectual property management3/3 Introduction to industrial analysis and innovation3/3	Innovation and entrepreneur practice3/3 Patent analysis and intellectual property management3/3 Practice and application of innovation management3/3 Introduction to new product innovation strategy3/3

I. Remarks:

1. This curriculum is applied to students admitted in Academic Year 104
2. Credit hours of each course (or total) are marked with “credit/hour.”
3. Courses of inter-disciplinary programs offered by other departments shall be regarded as elective professional courses of the department.
4. Elective courses: the courses listed in the table are planned courses, which will be offered based on practical needs.
5. For other instruction on course selection, students must follow “Course Selection Guidelines” of the University.

II. Requirement for graduation:

1. The minimal credit number for graduation is 72: (1) 8 credits of University required common courses (2) 0 credits of College required common courses (3) 44 credits of department required professional courses (4) at least 20 credits of department elective professional courses (A maximum of 6 credits of from elective professional courses offered by other departments will be recognized.)
2. General Education courses can be exempted with General Education Core I, II, and III; the courses of history and law category can be exempted with General Education Core IV or V of four-year programs.
3. Physical Education is a required course in the first year. The credits are not counted to meet graduation requirements. Students who fail in the course are not allowed to graduate.
4. Practicum outside the campus is a University required course and shall be handled in accordance with “National Kaohsiung University of Applied Sciences Regulations Governing Students' Practicum outside the Campus.”

III. Other requirements set by the department:

1. The students who did not graduate from IEM need to take “Introduction to industrial engineering and management 0/2” and pass for graduation.
2. The students studying in any one of the four Program: to attend at least every 18 credits required credits and passing grades awarded Certificate Program.
Track of Human Factors and production manufacturing program --Professional must take: Human factors, Production scheduling and 4 Elective Program courses.
Track of Statistic quality management and Quantitative decision making program --Professional must take: Quality management, Decision making analysis under multi-objectives, and 4 Elective Program courses.
Track of Industrial management and electronic program --Professional must take: Introduction to enterprise resource planning, Programming and application, and 4 Elective Program courses.
Track of Service innovation and technology management program --Professional must take: Introduction to technology management, Introduction to service science and innovation, and 4 Elective Program courses.