

**國立高雄應用科技大學 Industrial Engineering and Management Undergraduate curricula (4Year)**

Year		Year 1		Year 2		Year 3		Year 4	
Semester		Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
(A) Compulsory courses (29/49)		Physical education(1 <sup>st</sup> ) 0/2 Practical English 2/2 Service Learning(1 <sup>st</sup> ) 0/2	Physical education(2 <sup>nd</sup> ) 0/2 Advanced practical English 2/2 Service Learning(2 <sup>nd</sup> ) 0/2	Physical education(3 <sup>rd</sup> ) 0/2 English listening and speaking training(1 <sup>st</sup> ) 1/2 Chinese(1 <sup>st</sup> ) 2/2 Core curriculum(1 <sup>st</sup> ) 2/2	Physical education(4 <sup>th</sup> ) 0/2 English listening and speaking training(2 <sup>nd</sup> ) 1/2 Chinese(2 <sup>nd</sup> ) 2/2 Core curriculum(2 <sup>nd</sup> ) 2/2 Professional ethics 1/1	Physical education(5 <sup>th</sup> ) 0/2 Core curriculum(5 <sup>th</sup> ) 2/2 Core curriculum(3 <sup>rd</sup> ) 2/2 Extended general education 2/2	Physical education(6 <sup>th</sup> ) 0/2 Extended general education 2/2	Applied Writing & practice 2/2 Core curriculum(4 <sup>th</sup> ) 2/2 Extended general education 2/2	
		English competence training 0/2							
(B) Compulsory courses (6/6)		Calculus 3/3 Practice factory of management 3/3							
(C) Compulsory courses (64/68)		Computer programming 3/3 Engineering graphics 3/3 Industrial Engineering and Management 2/2 Accounting 4/4	Statistics(1 <sup>st</sup> ) 3/3 Economics 3/3 Management mathematic 3/3 Production management 4/4 Manufacturing processes 3/3	Statistics(2 <sup>nd</sup> ) 3/3 Quality management 4/4 Work study methods, standard and design 3/3 Automatic production systems 4/4 Practice of manufacturing 3/3	Operations research 4/4 Management 3/3 Facilities planning 3/3	Ergonomics / human factors 3/3 Material Management 3/3	Practice Project(1 <sup>st</sup> ) 1/2 Engineering economics 3/3	Practice Project(2 <sup>nd</sup> ) 1/2	
(D) elective course 40 credit	Foundation course		Systems analysis 3/3 Web Pages Design 3/3 Application of information software 3/3	Engineering application of computer 3/3 Cost accounting 3/3 Economic analysis 3/3	Object-Oriented programming 3/3 Financial management 3/3 Technical report and communication 3/3 Database system 3/3 Off-Campus Practicum 2/2 Practice of industrial automatic 2/3	Theory of gray system 3/3 Project management 3/3 Creative Problem Solving 3/3 Management in service industries 3/3 English for science and technology 3/3	Industrial Systems Simulation 3/3 Human resource management ,get 3/3 Performance management 3/3 Survey sampling 3/3 Leadership Winning Principles 3/3 CNO Programming 2/3 The Basic of Physiology Ergonomics 3/3	Strategic management 3/3 Decision Analysis 3/3 Knowledge management 3/3 Case Study on International Business 3/3 Managerial psychology 3/3	Management Trainees 6/18 decision support systems 3/3 industry analysis & improvement 3/3 diversification case study 3/3
	Quality Engineering			Total quality management 3/3	Statistical analysis 3/3	Quality Management Systems 3/3		Environmental Management System 3/3	Reliability analysis 3/3
	Product Engineering		Computer aided design 3/3	Product Engineering Introduction 3/3	Product service management 3/3	Management of technology 3/3	Intellectual Property And Management 3/3	Computer aided manufacture 3/3	
	Logistics Engineering			Logistic management 3/3	E-business 3/3	Warehousing and Transportation management 3/3	Supply chain management 3/3	Electronic commerce 3/3	
	Production Engineering			Enterprise resource planning 3/3	Toyota Production Systems 3/3	Production scheduling 3/3	Industrial safety and health 3/3	Practice of factory management 3/3	

1. The minimum graduation credits are 139 credits, including (A) the common compulsory courses 29 credits (B) the compulsory courses 6 credits (C) the professional compulsory courses 64 credits (D) the professional elective courses 40 credits. (4year)