

國立高雄應用科技大學 2012 Industrial Engineering and Management Postgraduate curricula

Year	Year 1		Year 2	
Semester	Semester 1	Semester 2	Semester 3	Semester 4
compulsory course	Project discussion (1 st)1/2	Project discussion (2 nd)1/2	Project discussion (3 rd)1/2	Project discussion (4 th)1/2 Master thesis 6/6

elective course: Plus 26 credit from			International group (Teach in English)
foundation course	Industrial engineering group	Industrial management group	
Statistical inference. 3/3 Topics of Production Management. 3/3 Topics of Quality Management. 3/3 Applied operations research. 3/3 Research Methodology. 3/3 Theory of Decision Making. 3/3 Applications of Advanced Statistical Models. 3/3 Case study in Industrial Systems Simulation. 3/3 Multivariate analysis. 3/3 Operating Physiology. 3/3 Fuzzy Theory and Application. 3/3 Management Performance Evaluation. 3/3 Artificial Neural Networks Application. 3/3 Artificial Intelligence and Searching Rules. 3/3 Data mining. 3/3 Seminar for Gray System. 3/3 English scientific reports and writing. 3/3	System Analysis For Automated Manufacturing. 3/3 Product Data Management. 3/3 Seminar of Production System Design. 3/3 Collaborative Design Management. 3/3 Topics of Product Development. 3/3 Special topics in advanced planning and scheduling. 3/3 Applied ergonomics. 3/3 Testing and evaluation of ergonomics. 3/3 Recognition For Human Factor Engineering. 3/3 Manufacturing System Engineering. 3/3 Cad/Cam. 3/3 Case study in Computer Integrated Manufacturing. 3/3 Reliability Engineering. 3/3 Quality engineering. 3/3 Case study in Design of experiment. 3/3 Management of Semiconductor Fabrication. 3/3	Seminar For Innovation Management. 3/3 Manufacturing process capability analysis. 3/3 Topics of electronic business. 3/3 Special topics in management of technology. 3/3 Executive Information System. 3/3 Supply chain management. 3/3 Topics of project management. 3/3 Manufacture Strategic Special Topic. 3/3 Topic of Decision Support System. 3/3 Individual Special Topics For Management. 3/3 Special Topics in Marketing Policy. 3/3 Industrial product marketing. 3/3 Advanced E-Commerce. 3/3 Enterprise resource planning. 3/3 Policy and Strategy of Enterprise. 3/3 Topics of strategic management. 3/3	Production management(E).3/3 Information management(E).3/3 Random Manufacturing System. (E)3/3 Computer integrated manufacturing. (E)3/3 Quality management (E).3/3 Engineering Knowledge Management (E).3/3 Management Research Method (E).3/3 Manufacturing strategy (E).3/3 Manufacturing facility planning (E).3/3 Special topics in management of technology (E).3/3 Strategic management (E).3/3 Industrial product marketing (E).3/3

1. The minimum graduation credits are 36 credits, including (A) the compulsory courses 4 credits (B) the professional elective courses 26 credits (C) the master thesis courses 6 credits.