

Course List of IEEM's Graduate Program

2024.11

Group	Information and Operations Research		Intelligence Manufacturing and Operations Management		Ergonomics and Design		Engineering Management	
Course	Core Courses							
	IEEM5108	Linear Programming	IEEM5367	Intelligent Manufacturing and Automation	IEEM5239	Biomechanics	IEEM5401	Innovation and R&D Management
	IEEM5105	Statistical Methods	IEEM5353	Intelligent Integration of Enterprise	IEEM5249	Safety and Health Management	IEEM5523	Decision Analysis
	IEEM5103	Stochastic Processes	IEEM5380	Production and Operations Management	IEEM5105	Statistical Methods	IEEM5451	Project Management
	IEEM5311	System Simulation	IEEM5430	Total Quality Management	IEEM5371	Collaborative Product Development	IEEM5430	Total Quality Management
	IEEM5132	Integer Programming and Network Analysis	IEEM5135	Introduction to Artificial Intelligence			IEEM5363	Supply Chain Management
			IEEM5311	System Simulation				
	IEEM5000 Seminar / E5001 Seminar							
	Elective Courses (To see whether the course is offered in Chinese or English in specific semester, please inquire the curriculum system of NTHU)							
	IEEM5104	Stochastic Optimization	IEEM5363	Supply Chain Management	IEEM5246	Human Factors Testing and Evaluation	IEEM5606	Lean Management
	IEEM5109	Design and Analysis of Algorithms	IEEM5357	Computer Aided Design and Manufacturing	IEEM5235	Work Physiology	IEEM5381	Patent Analysis and Intellectual Property Management
	IEEM5127	Reliability Engineering	IEEM5381	Patent Analysis and Intellectual Property Management	IEEM5250	Human-Computer Interaction	IEEM5800	Green Product Life Cycle Assessment
	IEEM5800	Green Product Life Cycle Assessment	IEEM5361	Knowledge Engineering	IEEM5135	Introduction to Artificial Intelligence	IEEM5522	Systems Engineering and Management
	IEEM5142	Soft Computing	IEEM6124	Big Data Analytics &Data Mining	IEEM5237	Human Information Processing	IEEM5380	Production and Operations Management
	IEEM5191	Nonlinear Programming	IEEM5369	Quality Engineering			IEEM5135	Introduction to Artificial Intelligence
	IEEM5545	Data Science and Knowledge Base Techniques	IEEM5371	Collaborative Product Development			IEEM5134	Internet of Things: Technologies and Applications
	IEEM5135	Introduction to Artificial Intelligence	IEEM5606	Lean Management			IEEM5360	Semiconductor Intelligent Manufacturing
	IEEM5134	Internet of Things: Technologies and Applications	IEEM5545	Data Science and Knowledge Base Techniques				
	IEEM5110	Special Topics on Algorithms	IEEM5134	Internet of Things: Technologies and Applications	Note1: Core courses are basically offered in English. While the lecturer has the right to decide whether the course should be offered in English or not depending on the actual lecturing situation of the class. Note2: This form has listed all the IEEM courses. Students should inquire the curriculum system of NTHU to see which courses are offered in specific semester.			
	IEEM5170	Operations Research Applications	IEEM5360	Semiconductor Intelligent Manufacturing				
	IEEM5160	Advanced Operations Research	IEEM5368	Semiconductor Production Management				
	IEEM5136	Deep Learning for Industrial Applications						