

Curriculum

□ Undergraduate Course

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark
Elective Basic Course	IE101	Introduction to Operations Research	3:1:3(4)	Spring/Fall	
Mandatory Major Courses	IE241	Engineering Statistics I	3:0:3(6)	Spring	See the below
	IE251	Manufacturing Process Innovation	3:1:3(4)	Spring/Fall	
	IE261	Information Technology for Industrial Engineering	3:1:3(6)	Fall	
	IE321	Production Management I	3:0:3(6)	Fall	
	IE331	OR I - Optimization	3:1:3(3)	Spring	
	IE332	OR II - Stochastic Models	3:1:3(4)	Fall	
	IE341	Engineering Statistics II	3:0:3(6)	Fall	
	IE362	Applied Data Structures and Algorithms	3:1:3(6)	Fall	
Elective Major Courses	IE231	Applied Real Analysis and Probability	3:0:3	Spring	*FEP321
	IE310	Work Study	2:3:3(5)	Fall	
	IE312	Introduction to Human Engineering	2:3:3(2)	Spring	
	IE322	Production Management II	3:0:3(6)	Spring	
	IE342	Regression Analysis and Experimental Designs	3:0:3(4)	Fall	
	IE353	Product Development and Product Information Management	3:1:3(6)	Spring	
	IE361	Human-Computer Interaction Design	3:1:3(4)	Spring	
	IE363	Introduction to Modeling and Simulation	3:1:3(5)	Fall	
	IE371	Service System Engineering	3:1:3	Spring	
	IE413	Aesthetic Engineering	2:3:3(3)	Fall	
	IE414	Cognitive Science and Systems	3:1:3(4)	Fall	
	IE421	Engineering Economy and Cost Analysis	3:0:3(6)	Spring	*CC513
	IE423	Logistics Management	3:1:3(5)	Fall	
	IE425	Project Management	3:1:3(4)	Spring	**
	IE426	Supply Chain Management	3:1:3(5)	Spring	**
	IE431	Introduction to Optimization Theory	3:0:3(3)	Spring	
	IE432	Decision Analysis and Risk Management	3:0:3(4)	Spring	**
	IE434	Introduction to Telecommunication Service and Systems	3:1:3(3)	Spring	**
	IE435	Telecommunication Service and Policy	3:0:3(6)	Fall	**
	IE436	Case Studies for Industrial & Systems Engineering	3:1:3(4)	Fall	
	IE441	Quality Control	3:0:3(6)	Spring	
	IE442	Case Studies in Statistical Data Analysis	3:1:3(5)	Fall	
	IE451	IT Service Engineering	3:1:3(6)	Spring	**
	IE452	System Design Project	2:3:3(5)	Spring	
	IE453	Conceptual Design for Engineering Products	3:0:3	Spring	**
	IE461	Business Process Engineering and Management	3:0:3(6)	Fall	**
	IE463	Information Systems Engineering and Management	3:0:3	Spring	**
	IE471	Introduction to Financial Engineering	3:0:3	Spring	*FEP311
IE472	Socio-Economic Systems Modeling)	3:0:3	Spring	**	
IE473	Financial Economics	3:0:3	Fall	**	
IE481	Special Topics in Industrial Engineering I	3:0:3			
Research	IE490	B.S. Thesis	0:6:3		
	IE495	Individual Study	0:6:1		
	IE496	Seminar in B.S.	1:0:1	Spring	

※ Note: 1) ** stands for courses open to both undergraduate and graduate students

2) * stands for substitutable courses

3) 'CS206 of Data Structure' taken only in Spring, 2014 can be substituted for 'IE362 Applied Data Structures and Algorithms'