Table of Curriculum

Classification		Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
Mandatory General Course	Mandatory	CC010	11.010	Special Lecture on Leadership	1:0:0	Fall	
		CC020	11.020	Ethics and Safety I	1AU	Spring.Fall	
	Choose 1	CC500	11.500	Scientific Writing	3:0:3	Spring.Fall	
		CC510	11.510	Introduction to Computer Application	2:3:3	Spring.Fall	
		CC511	11.511	Probability and Statistics	2:3:3	Spring.Fall	
		CC513	11.513	Engineering Economy and Cost Analysis	3:0:3	Fall	
		CC522	11.522	Introduction to Instruments	2:3:3	Fall	
		CC530	11.530	Entrepreneurship and Business Strategies	3:0:3	Fall	
		CC531	11.531	Patent Analysis and Invention Disclosure	3:0:3	Spring.Fall	
		CC532	11.532	Collaborative System Design and Engineering	4:0:4	Spring	
Elective Course		KSE521	68.521	Business Intelligence	3:0:3(6)	Fall	◎
		KSE522	68.522	Knowledge System Modeling and Design	3:0:3(6)	Fall	◎
		KSE523	68.523	Knowledge Service Design Using Web Technologies	3:1:3(6)	Fall	◎
		KSE524	68.524	Information Search and Management	3:1:3(6)	Spring	◎
		KSE525	68.525	Data Mining and Knowledge Discovery	3:0:3(6)	Spring	◎ *IE646
		KSE526	68.526	Analytical Methodologies for Big Data	3:0:3(6)	Fall	◎
		KSE527	68.527	Machine Learning for Knowledge Service	3:1:3(6)	Spring	
		KSE531	68.531	Human-Computer Interaction: Theory and Design	3:0:3(6)	Spring	◎ *IE566
		KSE611	68.611	Introduction to Learning Science	3:0:3(6)	Fall	
		KSE612	68.612	Human Decision Making and Support	3:0:3(6)	Spring	
		KSE621	68.621	Advanced Techniques in Information Retrieval and Data Mining	3:1:3(6)	Fall	
		KSE622	68.622	Soft-computing in Intelligent System Design	3:0:3(6)	Fall	*IE636
		KSE623	68.623	Knowledge Structure and Modeling	3:1:3(6)	Spring	
		KSE624	68.624	Mobile and Pervasive Computing for Knowledge Services	3:1:3(6)	Fall	
		KSE625	68.625	Data Mining for Social Networks	3:0:3(6)	Fall	
		KSE631	68.631	Content Networking	3:0:3(6)	Spring	
		KSE641	68.641	Cognitive Engineering	3:0:3(6)	Fall	*IE761
		KSE643	68.643	Knowledge Engineering and Intelligent Decision Making	3:0:3(6)	Spring	
		KSE651	68.651	Organizational Learning and Knowledge Consulting	3:0:3(6)	Spring	
		KSE652	68.652	Social Computing Systems Design and Analysis	3:0:3(6)	Fall	

Classification	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	KSE653	68.653	Service UX Design	3:0:3(6)	Spring	
	KSE801	68.801	Special Topics in Intelligent Service Engineering I	3:0:3		
	KSE808	68.808	Invited Lectuer I	1:0:1		
	KSE809	68.809	Invited LectuerⅡ	2:0:2		
Research	KSE960	68.960	MS Thesis			
	KSE966	68.966	Seminar in MS	1:0:1	Spring.Fall	
	KSE980	68.980	Ph.D Thesis			
	KSE986	68.986	Seminar in Ph.D	1:0:1	Spring.Fall	

※ Remark: 1) * stands for substitutable courses

2) ◎: Course mutually recognized by undergraduate and graduate programs
※Course classification, course title, and mutual recognition of credits may differ according to the effective year of the requirements.

Substitute Course List

Substitute courses in the department					
Category	**Courses currently offered**		**Courses not currently offered**		
	Course no.	**Course title**	**Course no.**	**Course title**	**Remark**
Elective Course	KSE525	Data Mining and Knowledge Discovery	IE646	Data Mining	Bidirectional
Elective Course	KSE531	Human-Computer Interaction: Theory and Design	IE566	Human-Computer Interaction: Theory and Design	Bidirectional
Elective Course	KSE622	Soft-computing in Intelligent System Design	IE636	Intelligent Systems & Soft Computing	Bidirectional
Elective Course	KSE641	Cognitive Engineering	IE761	Cognitive Engineering	Bidirectional

※ Substitute courses may differ according to the effective year of the requirements.