MASTER ISE CURRICULUM

For Batch 2017 and forward

Code	Course	No. of Credit			Semester	Note
		Theory	**Practice**	**Total**		
Part 1: General knowledge (4 credits)				**4**		
PE500	Philosophy*	4	0	4	*1*	
Part 2: Basement knowledge				**11**		
Compulsory courses (2 credits)				*2*		
ISE002IU	Research Methodology	2	0	2	*1*	
ISE Compulsory courses (9 credits)				*9*		
ISE501IU	Production and Service Analysis	2	1	3	*1*	
ISE502IU	Deterministic Optimization Models	2	1	3	*1*	
ISE503IU	Stochastic Models	2	1	3	*1*	
Part 3: Specialized knowledge				**15**		
3.1 Compulsory courses of Industrial Engineering field				*9*		
ISE504IU	System Modeling and Simulation	2	1	3	*2*	
ISE508IU	Production Planning and Scheduling	2	1	3	*2*	
ISE507IU	Facility Layout and Location	2	1	3	*2*	
Specialized elective courses (6 credits)				6		
ISE505IU	Multi Criteria Decision Making	2	1	3	*1 or 2*	
ISE506IU	Inventory Control and Management	2	1	3	*1 or 2*	

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Code	Course	No. of Credit			Semester	Note
		Theory	**Practice**	**Total**		
ISE610IU	Lean Production	2	1	3	*1 or 2*	
ISE601IU	Engineering Economics	2	1	3	*1 or 2*	
3.2 Compulsory course of Supply Chain and Logistics field				**9**		
ISE504IU	System Modeling and Simulation	2	1	3	*2*	
ISE508IU	Production Planning and Scheduling	2	1	3	*2*	
ISE509IU	Supply Chain Systems	2	1	3	*2*	
Specialized elective courses (6 credits)				6		
ISE505IU	Multi Criteria Decision Making	2	1	3	*1 or 2*	
ISE506IU	Inventory Control and Management	2	1	3	*1 or 2*	
ISE605IU	Transportation Economics	2	1	3	*1 or 2*	
ISE615IU	International Transportation	2	1	3	*1 or 2*	*New*
Part 4: Thesis (12 credits)				**12**	*3*	
	Thesis			*12*		
Total (part I+II+III+IV)				**42**		

Note:
* For foreign students, the Philosophy course will be replaced by Vietnamese History Culture course
** Regarding elective courses, besides the elective courses in particular specialized knowledge which are provided in table above, students can select any course from other specialities in the Master Program of ISE.