## Program Curriculum

Code	Course	No. of Credits			
		Theory	Practice	Total	- Semester
Part 1: Foundation (4 credits)				4	
PE500	Philosophy*	4	0	4	1
Part 2: Basement knowledge				14	
Compulsory (4 credits)					
ISE002IU	Research Methodology	2	0	2	1
ISE001IU	Thesis	3	0	3	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
ISE505IU	Multi Criteria Decision Making	2	1	3	1
ISE508IU	Production Planning and Scheduling	2	1	3	2
3.2 Compulsory course of Supply Chain and Logistics field				9	
ISE504IU	System Modeling and Simulation	2	1	3	2
ISE505IU	Multi Criteria Decision Making	2	1	3	1
ISE509IU	Supply Chain Systems	2	1	3	2
3.3 Specialized elective courses *** (student can choose any course on the list which can fulfill 6 credits on the tracks of Industrial Engineering, Supply Chain and Logistics, Quantitative and computational in Finance, and Operational Research).				6	

ISE506IU	Inventory Control and Management	2	1	3	2
ISE507IU	Facility Layout and Location	2	1	3	2
ISE513IU	Integer Programming	2	1	3	2
ISE601IU	Engineering Economics	2	1	3	2
ISE602IU	Statistical Model and Regression Analysis	2	1	3	2
ISE603IU	Total Quality Management	2	1	3	2
ISE604IU	Maintenance Management	2	1	3	2
ISE605IU	Transportation Economics	2	1	3	2
I SE606IU	Risk Management	2	1	3	2
ISE607IU	Derivative Securities	2	1	3	2
ISE608IU	Fixed Income Securities	2	1	3	2
ISE609IU	Project Management	2	1	3	2
ISE610IU	Lean Production	2	1	3	2
ISE611IU	Enterprise Resources Planning	2	1	3	2
ISE612IU	Experimental Design	2	1	3	2
Part 3: Thesis (12 credits)		0	12	12	3
Thesis		0	0	0	3
Total (part I+II+III+IV)				42	

## **Curriculum Mapping**

## Map of Pre-requisite courses- Industrial Engineering field





## Map of Pre-requisite courses- Supply chain and Logistics field