

ISE curriculum For Batch 2015 and Forwards.**English Level 1: TOEFL \geq 500 - AE1 - 4 years****TOTAL CREDITS: 143**

Date:17-03-17

<i>Freshman Year</i>		<i>Pre-requisite</i>	<i>Post-requisite</i>
<i>Semester 1</i>		<i>Crds</i>	
EN007IU	Writing AE1	2	
EN008IU	Listening AE1	2	
MA001IU	Calculus 1	4	
PH013IU	Physics 1	2	
PH014IU	Physics 2	2	
PT001IU	Physical Training 1	0	
CH011IU	Chemistry for Engineers	3	
<i>Total credits</i>		15	

<i>Semester 2</i>		<i>Crds</i>	
EN011IU	Writing AE2	2	
EN012IU	Speaking AE2	2	
MA003IU	Calculus 2	4	
PE008IU	Critical Thinking	3	
PT002IU	Physical Training 2	0	
IS001IU	Introduction to Industrial Engineering	1	
IS054IU	Engineering Drawing	3	
PH015IU	Physics 3	3	
<i>Total credits</i>		18	

<i>Summer semester</i>		<i>Crds</i>	
PE011IU	Principles of Marxism	5	

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PE012IU	HCM' s thoughts	2		
PE013IU	Revolutionary Lines of Vietnamese Communist Party	3		
<i>Total credits</i>		10		

<i>Sophomore Year</i>				
<i>Semester 3</i>		<i>Crds</i>		
MA027IU	Applied Linear Algebra	2		
IS019IU	Production Management	3		
IS076IU	Introduction to Computing - Matlab Application	3		
IS004IU	Engineering Probability & Statistics	4		
MA023IU	Calculus 3	4		
IS016IU	Engineering Mechanics – Dynamics	3		
<i>Total credits</i>		19		

<i>Semester 4</i>		<i>Crds</i>		
IS077IU	Introduction to Programming – C ⁺⁺ /C [#] , Python	2		
IS020IU	Engineering Economy	3		
IS081IU	Deterministic models in OR	4		Applied Linear Algebra
IS017IU	Work design & Ergonomics + Lab	4		
IS034IU	Product Design & Development	3		Học trước Eng. Drawing
MA029IU	Differential Equations for ISE	2		
<i>Total credits</i>		18		

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<i>Summer semester</i>		<i>Crds</i>		
IS052IU	<i>Internship 1</i>	2		
	Military Training			
<i>Total credits</i>		2		

Junior Year		<i>Crds</i>		
<i>Semester 5</i>				
IS040IU	Management Information System	3		
IS025IU	Quality Management	3	Eng. Probability & statistics	
IS026IU	Project Management	3		
IS024IU	Probabilistic Models in OR	3	Eng. Probability & statistics	
IS__IU	ISE Elective Course (choose 1 course below)	3		
IS031IU	Experimental Design		Eng. Probability & statistics	
IS018IU	CAD/CAM			Học trước Eng. Drawing
IS058IU	Time series & forecasting technique			Học trước Eng. Prob & Stat
<i>Total credits</i>		15		

<i>Semester 6</i>		<i>Crds</i>		
IS079IU	Scientific Writing	2		
IS028IU	Simulation Models in IE	4	Eng. Probability & Statistics.	
IS027IU	Scheduling & Sequencing	3	Deterministic models in OR	

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IS078IU	Logistics engineering & supply chain design	3		Học trước Deterministic models in OR, Probabilistic Models in OR, Eng. Prob & Stat
IS__IU	ISE Elective Course (choose 1 course below)	3		
IS044IU	Computer Control Manufacturing Systems		Cad/cam	
IS068IU	Procurement Management			Học trước Eng. Prob & Stat
	Total credits	15		

Summer semester		Crds		
IS053IU	Internship 2	3		
	Total credits	3		

Senior Year				
Semester 7		Crds		
IS033IU	Multi-Criteria Decision Making	3	Deterministic models in OR, Eng. Prob & Stat	
IS041IU	Lean Production	3		Production management
IS032IU	Facility Layout	3		Học trước Deterministic models in OR
IS__IU	ISE Elective Course (choose 3 courses below)	9		
IS080IU	Creative Thinking			
IS035IU	Systems Engineering			
IS043IU	Flexible Manufacturing Systems			Học trước Cad/Cam
IS045IU	Leadership			

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IS023IU	Inventory Management			Học trước Eng. Prob & Stat
IS082IU	Retail Management			
IS067IU	International Transportation & Logistics			
IS062IU	E-Logistics in Supply Chain Management			
	<i>Total credits</i>	18		

<i>Semester 8</i>		<i>Crds</i>		
IS048IU	Thesis research	10		
	<i>Total credits</i>	10		

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English Level 2: 430 <= TOEFL < 500 - IE2 - 4.5 years

Total Credit: 159

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<i>Freshman Year</i>		
<i>Semester 1</i>		<i>Crds</i>
EN074IU	Reading & writing IE2	8
EN075IU	Listening & speaking IE2	8
PT001IU	Physical Training 1	0
MA001IU	Calculus 1	4
PH013IU	Physics 1	2
		<i>Total credits</i>
		22
<i>Semester 2</i>		<i>Crds</i>
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
CH011IU	Chemistry for Engineers	3
PH014IU	Physics 2	2
PT002IU	Physical Training 2	0
MA003IU	Calculus 2	4
IS001IU	Introduction to Industrial Engineering	1
IS054IU	Engineering Drawing	3
		<i>Total credits</i>
		17
<i>Summer semester</i>		<i>Crds</i>
PE011IU	Principles of Marxism	5
PE012IU	HCM' s thoughts	2
PE013IU	Revolutionary Lines of Vietnamese Communist Party	3
		<i>Total credits</i>
		10
<i>Sophomore Year</i>		
<i>Semester 3</i>		<i>Crds</i>
MA027IU	Applied Linear Algebra	2
IS019IU	Production Management	3
IS076IU	Introduction to Computing - Matlab Application	3
IS004IU	Engineering Probability & Statistics	4
IS016IU	Engineering Mechanics – Dynamics	3
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
PE008IU	Critical Thinking	3
		<i>Total credits</i>
		22

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<i>Semester 4</i>		<i>Crds</i>
IS077IU	Introduction to Programming – C ⁺⁺ /C [#] , Python	2
IS020IU	Engineering Economy	3
IS081IU	Deterministic models in OR	4
IS017IU	Work design & Ergonomics + Lab	4
IS034IU	Product Design & Development	3
MA029IU	Differential Equations for ISE	2
MA023IU	Calculus 3	4
<i>Total credits</i>		22
<i>Summer semester</i>		<i>Crds</i>
IS052IU	Internship 1	2
	Military Training	
<i>Total credits</i>		2
<i>Junior Year</i>		
<i>Semester 5</i>		<i>Crds</i>
PH015IU	Physics 3	3
IS040IU	Management Information System	3
IS025IU	Quality Management	3
IS026IU	Project Management	3
IS024IU	Probabilistic Models in OR	3
IS__IU	ISE Elective Course (choose 1 course below)	3
IS031IU	Experimental Design	
IS018IU	CAD/CAM	
IS058IU	Time series & forecasting technique	
<i>Total credits</i>		18
<i>Semester 6</i>		<i>Crds</i>
IS079IU	Scientific Writing	2
IS028IU	Simulation Models in IE	4
IS027IU	Scheduling & Sequencing	3
IS078IU	Logistics engineering & supply chain design	3
<i>Total credits</i>		12
IS__IU	ISE Elective Course (choose 1 course below)	3
IS044IU	Computer Control Manufacturing Systems	
IS068IU	Procurement Management	
<i>Total credits</i>		15

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<i>Summer semester</i>		<i>Crds</i>
<i>IS053IU</i>	<i>Internship 2</i>	<i>3</i>
<i>Total credits</i>		<i>3</i>
<i>Senior Year</i>		
<i>Semester 7</i>		<i>Crds</i>
IS033IU	Multi-Criteria Decision Making	3
IS041IU	Lean Production	3
IS032IU	Facility Layout	3
IS__IU	ISE Elective Course (choose 3 courses below)	9
IS080IU	Creative Thinking	
IS035IU	Systems Engineering	
IS043IU	Flexible Manufacturing Systems	
IS045IU	Leadership	
IS023IU	Inventory Management	
IS082IU	Retail Management	
IS067IU	International Transportation & Logistics	
IS062IU	E-Logistics in Supply Chain Management	
<i>Total credits</i>		<i>18</i>
<i>Semester 8</i>		<i>Crds</i>
IS048IU	Thesis research	10
<i>Total credits</i>		<i>10</i>

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English Level 3: TOEFL <= 430 IE1 - 5 years

Total Credit: 181

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<i>Freshman Year</i>		
<i>Semester 1</i>		<i>Crds</i>
EN072IU	Reading & Writing IE1	11
EN073IU	Listening & Speaking IE1	11
PT001IU	Physical Training 1	0
		<i>Total credits</i>
		22
<i>Semester 2</i>		<i>Crds</i>
EN074IU	Reading & writing IE2	8
EN075IU	Listening & speaking IE2	8
PT002IU	Physical Training 2	0
IS001IU	Introduction to Industrial Engineering	1
MA001IU	Calculus 1	4
		<i>Total credits</i>
		21
<i>Summer semester</i>		<i>Crds</i>
PE011IU	Principles of Marxism	5
PE012IU	HCM' s thoughts	2
PE013IU	Revolutionary Lines of Vietnamese Communist Party	3
		<i>Total credits</i>
		10

<i>Sophomore Year</i>		
<i>Semester 3</i>		<i>Crds</i>
MA027IU	Applied Linear Algebra	2
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
IS004IU	Engineering Probability & Statistics	4
PH013IU	Physics 1	2
PH014IU	Physics 2	2
MA003IU	Calculus 2	4
		<i>Total credits</i>
		18
<i>Semester 4</i>		<i>Crds</i>
CH011IU	Chemistry for Engineers	3
IS081IU	Deterministic models in OR	4
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
PE008IU	Critical Thinking	3
IS054IU	Engineering Drawing	3

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MA023IU	Calculus 3	4
<i>Total credits</i>		21

<i>Summer semester</i>		<i>Crds</i>
IS052IU	Internship 1	2
	Military Training	
<i>Total credits</i>		2

<i>Junior Year</i>		
<i>Semester 5</i>		<i>Crds</i>
PH015IU	Physics 3	3
IS019IU	Production Management	3
IS076IU	Introduction to Computing - Matlab Application	3
IS040IU	Management Information System	3
IS025IU	Quality Management	3
IS016IU	Engineering Mechanics – Dynamics	3
IS__IU	ISE Elective Course (choose 1 course below)	3
IS031IU	Experimental Design	
IS018IU	CAD/CAM	
IS058IU	Time series & forecasting technique	
<i>Total credits</i>		21
<i>Semester 6</i>		<i>Crds</i>
IS077IU	Introduction to Programming – C ⁺⁺ /C [#] , Python	2
IS020IU	Engineering Economy	3
IS017IU	Work design & Ergonomics + Lab	4
IS034IU	Product Design & Development	3
MA029IU	Differential Equations for ISE	2
IS__IU	ISE Elective Course (choose 1 course below)	3
IS044IU	Computer Control Manufacturing Systems	
IS068IU	Procurement Management	
<i>Total credits</i>		17

<i>Senior Year</i>		
<i>Semester 7</i>		<i>Crds</i>
IS033IU	Multi-Criteria Decision Making	3
IS026IU	Project Management	3
IS024IU	Probabilistic Models in OR	3
IS041IU	Lean Production	3

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IS__IU	ISE Elective Course (choose 3 courses below)	9
IS080IU	Creative Thinking	
IS035IU	Systems Engineering	
IS043IU	Flexible Manufacturing Systems	
IS045IU	Leadership	
IS023IU	Inventory Management	
IS082IU	Retail Management	
IS067IU	International Transportation & Logistics	
IS062IU	E-Logistics in Supply Chain Management	
<i>Total credits</i>		21

Semester 8

		<i>Crds</i>
IS028IU	Simulation Models in IE	4
IS027IU	Scheduling & Sequencing	3
IS032IU	Facility Layout	3
IS078IU	Logistics engineering & supply chain design	3
IS079IU	Scientific Writing	2
<i>Total credits</i>		15

Summer semester

		<i>Crds</i>
IS053IU	Internship 2	3
<i>Total credits</i>		3

Senior Year

Semester 9

		<i>Crds</i>
IS048IU	Thesis research	10
<i>Total credits</i>		10