

ISE Curriculum For Batch 2014

English Level 1: TOEFL \geq 500 - AE1 - 4 years

TOTAL CREDITS: 142

Date: 17-3-17

<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		
PE012IU	HCM' s thoughts	2		

ISE Curriculum For Batch 2014**English Level 1: TOEFL \geq 500 - AE1 - 4 years****TOTAL CREDITS: 142**

Date: 17-3-17

PE013IU	Revolutionary Lines of Vietnamese Communist Party	3		
	<i>Total credits</i>	10		
<i>Sophomore Year</i>				
<i>Semester 3</i>		<i>Crds</i>		
IS019IU	Production Management	3		
IS076IU	Introduction to Computing - Matlab Application	3		Đối với khóa K2014, một số sinh viên đã học môn IS0002IU Intro to computing, được tương đương với môn mới IS076IU
IS004IU	Engineering Probability & Statistics	4		
MA023IU	Calculus 3	4		
IS016IU	Engineering Mechanics – Dynamics	3		
	<i>Total credits</i>	17		
<i>Semester 4</i>		<i>Crds</i>		
IS077IU	Introduction to Programming – C++/C# , Python	2		Đối với khóa K2014, một số sinh viên đã học môn IS0006IU IE Lab được tương đương với môn mới IS077IU
IS020IU	Engineering Economy	3		
IS021IU	Deterministic models in OR	3		
IS017IU	Work design & Ergonomics + Lab	4		
IS034IU	Product Design & Development	3		

ISE Curriculum For Batch 2014**English Level 1: TOEFL \geq 500 - AE1 - 4 years****TOTAL CREDITS: 142**

Date: 17-3-17

MA024IU	Differential Equations	4		
	Total credits	19		
Summer semester		Crds		
IS052IU	Internship 1	2		
	Military Training			
	Total credits	2		
Junior Year		Crds		
Semester 5				
IS040IU	Management Information System	3		
IS025IU	Quality Management	3	Eng. Probability & statistics	
IS026IU	Project Management	3		Deterministic models in OR
IS024IU	Probabilistic Models in OR	3	Eng. Probability & statistics	
IS__IU	ISE Elective Course (choose 1 course below)	3		
IS058IU	Time series & forecasting techniques			Học trước Eng. Prob & Stat
IS031IU	Experimental Design		Eng. Probability & statistics	
IS018IU	CAD/CAM			Học trước Eng. Drawing
	Total credits	15		
Semester 6		Crds		
IS079IU	Scientific Writing	2		
IS028IU	Simulation Models in IE	4	Eng. Probability & Statistics.	
IS027IU	Scheduling & Sequencing	3	Deterministic models in OR	

ISE Curriculum For Batch 2014

English Level 1: TOEFL \geq 500 - AE1 - 4 years

TOTAL CREDITS: 142

Date: 17-3-17

IS078IU	Logistics Engineering & Supply chain design	3		Học trước Deterministic 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
	<i>Total credits</i>	15		
<i>Summer semester</i>		<i>Crds</i>		
IS053IU	<i>Internship 2</i>	3		
	<i>Total credits</i>	3		
Senior Year				
<i>Semester 7</i>		<i>Crds</i>		
IS032IU	Facility Layout	3		Học trước Deterministic models in OR
IS033IU	Multi-Criteria Decision Making	3	Deterministic models in OR, Eng. Prob & Stat	
IS041IU	Lean Production	3		Production management
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			

ISE Curriculum For Batch 2014

English Level 1: TOEFL \geq 500 - AE1 - 4 years

TOTAL CREDITS: 142

Date: 17-3-17

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		

ISE Curriculum For Batch 2014

English Level 2: 430<=TOEFL < 500 - AE2 - 4.5 years

TOTAL CREDITS: 158

<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
	<i>Total credits</i>	20
<i>Semester 2</i>		<i>Crds</i>
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
CH011IU	Chemistry for Engineers	3
PH013IU	Physics 1	2
PH014IU	Physics 2	2
PT002IU	Physical Training 2	0
MA003IU	Calculus 2	4
IS001IU	Introduction to Industrial Engineering	1
	<i>Total credits</i>	16
<i>Summer semester</i>		<i>Crds</i>
PE011IU	Principles of Marxism	5
PE012IU	HCM' s thoughts	2
PE013IU	Revolutionary Lines of Vietnamese Communist P	3
	<i>Total credits</i>	10
<i>Sophomore Year</i>		
<i>Semester 3</i>		<i>Crds</i>
IS019IU	Production Management	3
MA023IU	Calculus 3	4
IS004IU	Engineering Probability & Statistics	4
EN011IU	Writing AE2	2

ISE Curriculum For Batch 2014

English Level 2: 430<=TOEFL < 500 - AE2 - 4.5 years

TOTAL CREDITS: 158

EN012IU	Speaking AE2	2
	<i>Total credits</i>	15
<i>Semester 4</i>		<i>Crds</i>
IS020IU	Engineering Economy	3
IS021IU	Deterministic models in OR	3
MA024IU	Differential Equations	4
PE008IU	Critical Thinking	3
IS054IU	Engineering Drawing	3
PH015IU	Physics 3	3
	<i>Total credits</i>	19
<i>Summer semester</i>		<i>Crds</i>
	Military Training	
	<i>Total credits</i>	0
<i>Junior Year</i>		Crds
<i>Semester 5</i>		
IS016IU	Engineering Mechanics – Dynamics	3
IS076IU	Introduction to Computing - Matlab Application	3
IS025IU	Quality Management	3
IS026IU	Project Management	3
IS040IU	Management Information System	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>

ISE Curriculum For Batch 2014

English Level 2: 430<=TOEFL < 500 - AE2 - 4.5 years

TOTAL CREDITS: 158

IS077IU	Introduction to Programming – C++/C# , Python	2
IS079IU	Scientific Writing	2
IS034IU	Product Design & Development	3
IS017IU	Work design & Ergonomics + Lab	4
IS__IU	ISE Elective Course (choose 1 course below)	3
IS044IU	Computer Control Manufacturing Systems	
IS068IU	Procurement Management	
	<i>Total credits</i>	14
<i>Summer semester</i>		<i>Crds</i>
IS052IU	<i>Internship 1</i>	2
	<i>Total credits</i>	2
<i>Senior Year</i>		
<i>Semester 7</i>		<i>Crds</i>
IS033IU	Multi-Criteria Decision Making	3
IS041IU	Lean Production	3
IS024IU	Probabilistic Models in OR	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>	18

ISE Curriculum For Batch 2014

English Level 2: 430<=TOEFL < 500 - AE2 - 4.5 years

TOTAL CREDITS: 158

<i>Semester 8</i>		<i>Crds</i>
IS032IU	Facility Layout	3
IS027IU	Scheduling & Sequencing	3
IS078IU	Logistics engineering & supply chain design	3
IS028IU	Simulation Models in IE	4
	<i>Total credits</i>	13
<i>Summer Semester</i>		<i>Crds</i>
IS053IU	Internship 2	3
	<i>Total credits</i>	3
<i>Senior Year (Year 5)</i>		
<i>Semester 9</i>		<i>Crds</i>
IS048IU	Thesis research	10
	<i>Total credits</i>	10

ISE Curriculum For Batch 2014

English Level 3: TOEFL < 430- AE3 - 4.5 years

TOTAL CREDITS: 180

<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>	<i>22</i>
<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>	<i>21</i>
<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>	<i>10</i>
<i>Sophomore Year</i>		
<i>Semester 3</i>		<i>Crds</i>
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
CH011IU	Chemistry for Engineers	3
PH013IU	Physics 1	2
PH014IU	Physics 2	2
MA003IU	Calculus 2	4
	<i>Total credits</i>	<i>15</i>

ISE Curriculum For Batch 2014

English Level 3: TOEFL < 430- AE3 - 4.5 years

TOTAL CREDITS: 180

<i>Semester 4</i>		<i>Crds</i>
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
PE008IU	Critical Thinking	3
IS054IU	Engineering Drawing	3
MA023IU	Calculus 3	4
PH015IU	Physics 3	3
	<i>Total credits</i>	<i>17</i>
<i>Summer semester</i>		<i>Crds</i>
	Military Training	
	<i>Total credits</i>	<i>0</i>
<i>Junior Year</i>		
<i>Semester 5</i>		<i>Crds</i>
IS004IU	Engineering Probability & Statistics	4
IS019IU	Production Management	3
IS076IU	Introduction to Computing - Matlab Application	3
IS016IU	Engineering Mechanics – Dynamics	3
MA024IU	Differential Equations	4
	<i>Total credits</i>	<i>17</i>
<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
IS021IU	Deterministic models in OR	3
	<i>Total credits</i>	<i>15</i>
<i>Summer semester</i>		<i>Crds</i>

ISE Curriculum For Batch 2014

English Level 3: TOEFL < 430- AE3 - 4.5 years

TOTAL CREDITS: 180

IS052IU	Internship 1	2
	<i>Total credits</i>	2
Senior Year		
<i>Semester 7</i>		<i>Crds</i>
IS040IU	Management Information System	3
IS026IU	Project Management	3
IS024IU	Probabilistic Models in OR	3
IS025IU	Quality Management	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>	15
Semester 8		
<i>Semester 8</i>		<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
IS__IU	ISE Elective Course (choose 1 course below)	3
IS044IU	Computer Control Manufacturing Systems	
IS068IU	Procurement Management	
	<i>Total credits</i>	18
Summer Semester		
<i>Summer Semester</i>		<i>Crds</i>
IS053IU	Internship 2	3
	<i>Total credits</i>	3

ISE Curriculum For Batch 2014

English Level 3: TOEFL < 430- AE3 - 4.5 years

TOTAL CREDITS: 180

<i>Senior Year (Year 5)</i>		
<i>Semester 9</i>		<i>Crds</i>
IS033IU	Multi-Criteria Decision Making	3
IS041IU	Lean Production	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>	15

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