

For batch 2011, 2012, 2013

IU ISE Curriculum - Toefl \geq 500 - AE1 - (4 years)

Total Credit: 143

31-5-2016

<i>Freshman Year</i>		
<i>Semester 1</i>		<i>Crds</i>
MA001IU	Calculus 1	4
PH013IU	Physics 1	2
CH011IU	Chemistry for Engineers	3
CH012IU	Chemistry Laboratory	1
PE008IU	Critical Thinking	3
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
PT001IU	Physical Training 1	0
<i>Total credits</i>		17

<i>Semester 2</i>		<i>Crds</i>
MA003IU	Calculus 2	4
PH014IU	Physics 2	2
IS002IU	Introduction to Computing	3
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
IS005IU	Engineering Mechanics – Statics	3
PT002IU	Physical Training 2	0
<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 Party	3
<i>Total credits</i>		10

<i>Sophomore Year</i>		
<i>Semester 3</i>		<i>Crds</i>
MA023IU	Calculus 3	4
PH015IU	Physics 3	3
PH016IU	Physics 3 Lab	1
IS001IU	Introduction to Industrial Engineering	1
IS006IU	IE lab	2
IS004IU	Engineering Probability & Statistics	4
IS016IU	Engineering Mechanics – Dynamics	3
<i>Total credits</i>		18

<i>Semester 4</i>		<i>Crds</i>
MA024IU	Differential Equations	4
IS014IU	Analytical Physics 2B	3
IS015IU	Analytical Physics 2B Lab	1
IS020IU	Engineering Economy	3
IS017IU	Work design & Ergonomics + Lab	4
IS034IU	Product Design & Development	3
<i>Total credits</i>		18

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

Junior Year		<i>Crds</i>
<i>Semester 5</i>		
IS019IU	Production Management	3
IS021IU	Deterministic models in OR	3
IS022IU	Database Systems	3
IS025IU	Quality Management	3
IS051IU	Communication skills	3
IS__IU	ISE Elective Course (choose 1 course below)	3
IS031IU	Experimental Design	
IS018IU	CAD/CAM	
	<i>Total credits</i>	18

<i>Semester 6</i>		<i>Crds</i>
IS024IU	Probabilistic Models in OR	3
IS026IU	Project Management	3
IS028IU	Simulation Models in IE	4
IS__IU	ISE Elective Course (choose 2 course below)	6
IS032IU	Facility Layout	
IS040IU	Management Information System	
IS023IU	Inventory Management	
IS044IU	Computer Control Manufacturing Systems	
	<i>Total credits</i>	16

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

Senior Year		
<i>Semester 7</i>		<i>Crds</i>
IS027IU	Scheduling & Sequencing	3
IS078IU	Logistics engineering & supply chain mangement	3
IS__IU	ISE Elective Course (choose 2 courses below)	6
IS033IU	Multi-Criteria Decision Making	
IS045IU	Leadership	
IS041IU	Lean Production	
IS043IU	Flexible Manufacturing Systems	
IS035IU	Systems Engineering	
	Free Elective Course	3
	<i>Total credits</i>	15

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

For batch 2011, 2012, 2013

IU ISE Curriculum - TOEFL 430-500, IE4 & IE3, (4.5 years)

Total Credit 154

31-5-2016

<i>Year 1</i>		
<i>Semester 1</i>		<i>Crds</i>
EN070IU	Reading & Writing IE4	5.6
EN071IU	Listening & Speaking IE4	5.4
MA001IU	Calculus 1	4
PH013IU	Physics 1	2
CH011IU	Chemistry for Engineers	3
PT001IU	Physical Training 1	0
<i>Total credits</i>		20

<i>Semester 2</i>		<i>Crds</i>
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
IS005IU	Engineering Mechanics – Statics	3
CH012IU	Chemistry Laboratory	1
PE008IU	Critical Thinking	3
MA003IU	Calculus 2	4
PH014IU	Physics 2	2
PT002IU	Physical Training 2	0
<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>Year 2</i>		
<i>Semester 3</i>		<i>Crds</i>
MA023IU	Calculus 3	4
PH015IU	Physics 3	3
PH016IU	Physics 3 Lab	1
IS001IU	Introduction to Industrial Engineering	1
IS006IU	IE lab	2
IS004IU	Engineering Probability & Statistics	4
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
<i>Total credits</i>		19

<i>Semester 4</i>		<i>Crds</i>
MA024IU	Differential Equations	4
IS014IU	Analytical Physics 2B	3
IS015IU	Analytical Physics 2B Lab	1
IS002IU	Introduction to Computing	3

IS020IU	Engineering Economy	3
IS017IU	Work design & Ergonomics	4
IS034IU	Product Design & Development	3
	Total credits	21

Summer semester		Crds
IS052IU	Internship 1	2
	Military Training	
	Total credits	2

Year 3		
Semester 5		Crds
IS016IU	Engineering Mechanics – Dynamics	3
IS019IU	Production Management	3
IS021IU	Deterministic models in OR	3
IS022IU	Database Systems	3
IS025IU	Quality Management	3
IS __ IU	ISE Elective Course (choose 1 course below)	3
IS031IU	Experimental Design	
IS018IU	CAD/CAM	
	Total credits	18

Semester 6		Crds
IS024IU	Probabilistic Models in OR	3
IS026IU	Project Management	3
IS028IU	Simulation Models in IE	4
IS051IU	Communication skills	3
IS __ IU	ISE Elective Course (choose 2 course below)	6
IS032IU	Facility Layout	
IS040IU	Management Information System	
IS023IU	Inventory Management	
IS044IU	Computer Control Manufacturing Systems	
	Total credits	19

Summer semester		Crds
IS053IU	Internship 2	3
	Total credits	3

Year 4		
Semester 7		Crds
IS027IU	Scheduling & Sequencing	3
IS029IU	Supply chain & Logistics Management	3
IS __ IU	ISE Elective Course (choose 2 courses below)	6
IS033IU	Multi-Criteria Decision Making	
IS045IU	Leadership	
IS041IU	Lean Production	
IS043IU	Flexible Manufacturing Systems	

IS035IU	Systems Engineering	
	Free Elective Course	3
	<i>Total credits</i>	15

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

For batch 2011, 2012, 2013

IU ISE Curriculum - TOEFL <430 - IE2 & IE1 - (5 years)

Total Credit 186

31-5-2016

<i>Year 1</i>		
<i>Semester 1</i>		<i>Crds</i>
EN048IU	IE1	32
EN049IU		
EN050IU		
EN051IU		
PT001IU	Physical Training 1	0
		<i>Total credits</i> 32

<i>Semester 2</i>		<i>Crds</i>
EN052IU	IE2	12
EN053IU		
EN054IU		
EN055IU		
MA001IU	Calculus 1	4
PH013IU	Physics 1	2
PH014IU	Physics 2	2
PT002IU	Physical Training 2	0
		<i>Total credits</i> 20

<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>Year 2</i>		
<i>Semester 3</i>		<i>Crds</i>
CH011IU	Chemistry for Engineers	3
CH012IU	Chemistry Laboratory	1
MA003IU	Calculus 2	4
PH015IU	Physics 3	3
PH016IU	Physics 3 Lab	1
IS001IU	Introduction to Industrial Engineering	1
IS006IU	IE lab	2
EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
		<i>Total credits</i> 19

<i>Semester 4</i>		<i>Crds</i>
MA023IU	Calculus 3	4
IS014IU	Analytical Physics 2B	3
IS015IU	Analytical Physics 2B Lab	1

IS020IU	Engineering Economy	3
IS002IU	Introduction to Computing	3
IS005IU	Engineering Mechanics – Statics	3
EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
<i>Total credits</i>		21

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

<i>Year 3</i>		
<i>Semester 5</i>		<i>Crds</i>
MA024IU	Differential Equations	4
IS004IU	Engineering Probability & Statistics	4
IS016IU	Engineering Mechanics – Dynamics	3
IS034IU	Product Design & Development	3
IS021IU	Deterministic models in OR	3
IS022IU	Database Systems	3
<i>Total credits</i>		20

<i>Semester 6</i>		<i>Crds</i>
IS017IU	Work design & Ergonomics	3
IS019IU	Production Management	3
IS024IU	Probabilistic Models in OR	3
IS028IU	Simulation Models in IE	4
IS__IU	ISE Elective Course (choose 1 course below)	3
IS031IU	Experimental Design	
IS018IU	CAD/CAM	
<i>Total credits</i>		16

<i>Year 4</i>		
<i>Semester 7</i>		<i>Crds</i>
IS025IU	Quality Management	3
IS051IU	Communication skills	3
IS027IU	Scheduling & Sequencing	3
IS029IU	Supply chain & Logistics Management	3
IS__IU	ISE Elective Course (choose 2 course below)	6
IS032IU	Facility Layout	
IS040IU	Management Information System	
IS023IU	Inventory Management	
IS044IU	Computer Control Manufacturing Systems	
<i>Total credits</i>		18

<i>Semester 8</i>		<i>Crds</i>
IS026IU	Project Management	3

PE008IU	Critical thinking	3
IS__IU	ISE Elective Course (choose 2 course below)	6
IS033IU	Multi-Criteria Decision Making	
IS045IU	Leadership	
IS041IU	Lean Production	
IS043IU	Flexible Manufacturing Systems	
IS035IU	Systems Engineering	
	Free Elective Course	3
	<i>Total credits</i>	15

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

<i>Year 5</i>		
<i>Semester 9</i>		<i>Crds</i>
IS048IU	Thesis research	10
	<i>Total credits</i>	10