

## **Industrial Engineering**

Semester	Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites
1	Calculus (I)	102	85	187	7.5	
1	Physics (I)	85	68	153	6.1	
1	Physics Lab. (I)	51	51	102	4.1	
1	Introduction to Computer Science	85	68	153	6.1	
1	English (I)	68	51	119	4.8	
1	Chemistry	85	51	136	5.4	
1	Chemistry Lab	51	51	102	4.1	
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Total sen	nester hours	527	425	952	38.1	
2	Calculus(II)	102	85	187	7.5	Calculus (I)
2	Physics (II)	85	68	153	6.1	Physics (I)
2	Physics Lab. (II)	51	51	102	4.1	Physics (I), Physics Lab. (I)
2	Programming Languages	85	68	153	6.1	Introduction to Computer Science
2	English (II)	68	51	119	4.8	English (I)
2	Guarani Language	68	51	119	4.8	
2	Engineering Drawing	68	51	119	4.8	

Total sen	nester hours	527	425	952	38.2	
2						

5		08	51	119	4.0	
3	Introduction to Industrial Engineering	85	68	153	6.1	
3	Object Oriented Programming	85	68	153	6.1	Programming Languages
3	Linear Algebra	85	68	153	6.1	
3	Industrial Accounting	85	51	136	5.4	
3	Work Study	85	68	153	6.1	
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Total con	mester hours	EC1	425	096	20 /	

4	Engineering Statistics	68	51	119	4.8	Probability Theory
4	Chinese (II)	68	51	119	4.8	Chinese (I)
4	Thermodynamics	85	68	153	6.1	Physics (I)
4	Engineering Economics	85	68	153	6.1	Introduction to Industrial Engineering
4	Data Structures	85	85	170	6.8	Object Oriented Programming
4	Production Planning and Control	85	68	153	6.1	Introduction to Industrial Engineering
4	Ergonomics	85	51	136	5.4	Work Study
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Total ser	nester hours	561	442	1003	40.1	



## **Industrial Engineering**

Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites
Research Methodology	68	51	119	4.8	
Manufacturing Processes	68	51	119	4.8	Introduction to Industrial Engineering
Electronic Commerce	85	51	136	5.4	Industrial Accounting
Quality Control	85	68	153	6.1	Engineering Statistics, Production Planning and Control
Operations Research (I)	85	68	153	6.1	Linear Algebra
Management Information System	85	68	153	6.1	Programming Languages
Heat Transfer	68	51	119	4.8	Thermodynamics
nester hours	544	408	952	38.1	
Optative (1)	68	51	119	4.8	Have passed all subjects up to the third semester
	Subject Research Methodology Manufacturing Processes Electronic Commerce Quality Control Operations Research (I) Management Information System Heat Transfer Inster hours Optative (1)	Subject         Total hours of academic work with teacher support           Research Methodology         68           Manufacturing Processes         68           Electronic Commerce         85           Quality Control         85           Operations Research (I)         85           Management Information System         85           Heat Transfer         68           nester hours         544	SubjectTotal hours of academic work with teacher supportTotal hours of independent student workResearch Methodology6851Manufacturing Processes6851Electronic Commerce8558Quality Control8568Operations Research (I)8568Management Information System8568Heat Transfer6851Image Control544408Optative (1)6851	SubjectTotal hours of academic work with teacher supportTotal hours of independent student workTotal hours of academic workResearch Methodology6851119Manufacturing Processes6851119Electronic Commerce8551136Quality Control8568153Operations Research (I)8568153Management Information System8568153Heat Transfer6851119Image: State Point544408952Optative (1)6851119	SubjectTotal hours of academic work with teacher supportTotal hours of independent student workTotal hours of academic workCreditsResearch Methodology68511194.8Manufacturing Processes68511194.8Electronic Commerce85681536.1Quality Control85681536.1Operations Research (I)85681536.1Management Information System85681536.1Heat Transfer68511194.8Lettors54440895238.1Optative (1)68511194.8

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6	Optative (2)	68	51	119	4.8	Have passed all subjects up to the third semester
6	Optative (3)	68	51	119	4.8	Have passed all subjects up to the third semester
6	Supply Chain Management	85	68	153	6.1	Production Planning and Control
6	Operations Research (II)	85	68	153	6.1	Operations Research (I)
6	Maching Learning and Big Data Analytics	85	68	153	6.1	Object Oriented Programming
6	Simulation	85	51	136	5.4	Engineering Statistics
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Total sen	nester hours	544	408	952	38.1	

7 System 7 Data M 7 Invento 7 Industr 7 7 7 7	Mining Applications tory Theory strial Enginnering Capstone Project (I)	85 85 0	68 51 300	153 136 300	6.1 5.4 12.0	Object Oriented Programming Industrial Accounting Have passed all subjects up to the sixth semester
7 System 7 Data M 7 Invento 7 Industr 7 7	Mining Applications tory Theory strial Enginnering Capstone Project (I)	85 85 0	68 51 300	153 136 300	6.1 5.4 12.0	Object Oriented Programming Industrial Accounting Have passed all subjects up to the sixth semester
7 System 7 Data M 7 Invento 7 Industr 7	Mining Applications tory Theory strial Enginnering Capstone Project (I)	85 85 0	68 51 300	153 136 300	6.1 5.4 12.0	Object Oriented Programming Industrial Accounting Have passed all subjects up to the sixth semester
7 System 7 Data M 7 Invento 7 Industr	Mining Applications htory Theory strial Enginnering Capstone Project (I)	85 85 0	68 51 300	153 136 300	6.1 5.4 12.0	Object Oriented Programming Industrial Accounting Have passed all subjects up to the sixth semester
7 System 7 Data M 7 Invento	Mining Applications ntory Theory	85 85	68 51	153 136	6.1 5.4	Object Oriented Programming Industrial Accounting
7 System 7 Data M	Mining Applications	85	68	153	6.1	Object Oriented Programming
7 System						
	em Analysis	85	51	136	5.4	Engineering Statistics
7 Optativ	tive (6)	68	51	119	4.8	Have passed all subjects up to the third semester
7 Optativ	tive (5)	68	51	119	4.8	Have passed all subjects up to the third semester
7 Optativ	tive (4)	68	51	119	4.8	Have passed all subjects up to the third semester

8	Practice Work Training in Commpany	0	300	300	12.0	Have passed all subjects up to the sixth semester
8	Industrial Enginnering Capstone Project (II)	0	300	300	12.0	Have passed all subjects up to the seventh semester
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Total se	mester hours	0	600	600	24.0	

TOTAL HOURS	3723	3756	7479

TOTAL CREDITS 299.3