

## **Information 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	Discrete Math	85	68	153	6.1				
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Total sem	iester hours	476	391	867	34.7				
		100	05	107	7.5				
2	Calculus (II)	102	85	187	7.5	Calculus (1)			
2	Physics (II)	85	68	153	6.1	Physics (1)			
2	Physics Lab. (II)	51	51	102	4.1	Physics (1), Physics Lab. (1)			
2		85	68	153	6.1				
2		80	51	119	4.8				
2	Guarani Language	00	51	119	4.8				
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Z Total com	hostor hours	450	274	022	22.4				
Total Sell		433	3/4	855	33.4				
3	Chinese (I)	68	51	110	4.8				
3	Probability & Statistics	68	51	119	4.8	Calculus (I)			
3	Introduction to Computer Networks	85	68	153	6.1	Introduction to Computer Science			
3	Object-Oriented Programming	85	68	153	6.1	Programming Language			
3	Linear Algebra	85	68	153	6.1				
3	Digital Logic Design	51	51	102	4.1	Introduction to Computer Science			
3	Digital Logic Design Lab.	68	51	119	4.8	Introduction to Computer Science			
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Total sem	nester hours	510	408	918	36.8				
4	Statistics (II)	68	51	119	4.8	Probability & Statistics			
4	Chinese (II)	68	51	119	4.8	Chinese (I)			

4	Chinese (II)	68	51	119	4.8	Chinese (I)
4	Advanced Computer Networks	85	85	170	6.8	Introduction to Computer Networks
4	Computer Organization and Architecture	85	85	170	6.8	Digital Logic Design
4	Data Structures	85	85	170	6.8	Object-Oriented Programming
4	Applied Electronics	68	51	119	4.8	Digital Logic Design
4	Electronics Circuit Lab	51	51	102	4.1	Digital Logic Design
4	JAVA Programming	85	85	170	6.8	Programming Language
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Total semester hours		595	544	1139	45.7	



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Semester	Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites	
5	Research Methodology	68	51	119	4.8		
5	Operating Systems	85	85	170	6.8	Computer Organization and Architecture	
5	Database Systems	85	85	170	6.8	Object-Oriented Programming	
5	Algorithms	85	68	153	6.1	Discrete Math	
5	Introduction to Artificial Intelligence	85	85	170	6.8	Data Structures	
5	Microcomputer Principles and Applications	85	68	153	6.1	Computer Organization and Architecture	
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Total sen	nester hours	493	442	935	37.4		
6	Optative (1)	68	51	119	4.8	Have passed all subjects up to the third semester	
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	Embedded System Design	51	51	102	4.1	Microcomputer Principles and Applications	
6	Embedded System Design Lab.	51	51	102	4.1	Microcomputer Principles and Applications	
6	Machine Learning and Big Data Analytics	85	68	153	6.1	Object-Oriented Programming	
6	Multimedia	51	51	102	4.1	JAVA Programming	
6	Introduction to Information Security	85	68	153	6.1	Advanced Computer Networks	
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Total semester hours		527	442	969	38.9		
7	Optative (4)	68	51	119	4.8	Have passed all subjects up to the third semester	
7	Optative (5)	68	51	119	4.8	Have passed all subjects up to the third semester	
7	Data Mining	85	85	170	6.8	Machine Learning and Big Data Analytics	
7	Wireless Communication and Network Security	85	68	153	6.1	Introduction to Information Security	

Total semester hours	476	691	1167	46.7	
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7 Computer Science and Information Engineering Capstone Project (I	) 0	300	300	12.0	Have passed all subjects up to the sixth semester
7 Social Networks	85	68	153	6.1	Multimedia
7 Computer Vision	85	68	153	6.1	Machine Learning and Big Data Analytics
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8	Practice Work Training in Commonly	0	300	300	12.0	Have passed all subjects up to the sixth semester
8	Computer Science and Information Engineering Canstone Project (II)	0	300	300	12.0	Have passed all subjects up to the seventh semester
0	Computer Science and Information Engineering Capstone Project (11)	0	500	500	12.0	
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Total se	Total semester hours		600	600	24	

TOTAL HOURS	3536	3892	7428	
TOTAL CREDITS				297.6