Electromechanical Engineering

		Total hours of academic	Total hours of			
Semester	Subject	work with teacher support	independent student work	Total hours of academic work	Credits	Prerequisites
1	Calculus (I)	102	85	187	7.5	
	Physics (I)	85	68	153	6.1	
1	Physics Lab (I)	51	34	85	3.4	
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	
1	CHEMISTRY Lab	31	31	102	4.1	
1						
1						
lotal sen	nester hours	527	408	935	37.4	
2	Calculus (II)	102	85	187	7.5	Calculus (I)
	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 Language	85	68	153	6.1	Introduction to Computer Science
2	English (II)	68	51	119	4.8	English (I)
2	Physics (III) - Statics	85	68	153	6.1	Calculus (I), Physics (I)
2	Engineering Drawing	68	51	119	4.8	
2						
2						
2						
Total sen	nester hours	544	442	986	39.5	
3	Chinese (I)	68	51	119	4.8	T
3	Statistics (I)	68	51	119	4.8	Calculus (I)
3	Guarani Language	68	51	119		Calculus (1)
		85	68		4.8	Colordon (I) Physics (III) Chables
	Physics (IV) - Dynamics			153	6.1	Calculus (I), Physics (III) - Statics
3	Electrical Engineering	68	51	119	4.8	Physics (II)
3	Engineering Mathematics (I)	85	68	153	6.1	Calculus (II)
	Engineering Materials (I)	85	51	136	5.4	Chemistry
3						
3						
3						
Total sen	nester hours	527	391	918	36.8	
4	Statistics (II)	68	51	119	4.8	Statistics (I)
4	Chinese (II)	68	51	119	4.8	Chinese (I)
4	Physics (V) - Thermodynamics	85	68	153	6.1	Physics (I)
	Engineering Mathematics (II)	85	68	153		Engineering Mathematics (I)
4	Mechanics of Materials	102	85	187	7.5	Physics (III) - Statics
4	Applied Electronics	68	51	119	4.8	Electrical Engineering
4	Electronics Circuit Lab	51	51	102	4.1	Electrical Engineering
4	Mechanisms and Dynamics of Machinery	68	51	119	4.8	Physics (IV) - Dynamics
4	·					
4						
Total sen	nester hours	595	476	1071	43.0	
I our sell	icater rivara	393	4/0	10/1	+3.0	



Electromechanical Engineering

\$ Research Methodology	Semester	Subject	Total hours of academic work with teacher support	Total hours of independent student work	Total hours of academic work	Credits	Prerequisites
5 Automatic 68 68 153 6.1.	5	Research Methodology	68	51	119	4.8	
S Automatic Control 68 51 119 4.8 Engineering Mathematics (II)	5	Manufacturing Processes			119	4.8	Engineering Materials (I)
S Mechanical Design 68 51 119 4.8 Mechanisms and Dynamics of Machinery	5	Fluid Mechanics	85	68	153	6.1	Engineering Mathematics (I)
S Automatic Control Leb 51 51 102 4.1 Engineering Nathematics (II)	5	Automatic Control	68	51	119	4.8	
Second Content	5	Mechanical Design	68	51		4.8	Mechanisms and Dynamics of Machinery
Fower Systems	5	Automatic Control Lab	51	51	102	4.1	
Semester hours	5	Heat Transfer	68	51	119	4.8	Physics (V) - Thermodynamics
Section Sect	5	Power Systems	85	68	153	6.1	Electrical Engineering
Sea	5						
6 Optative (1) 6 Optative (2) 6 8 51 119 4 8 Have passed all subjects up to the third semester 6 Optative (3) 6 8 51 119 4 8 Have passed all subjects up to the third semester 6 Optative (3) 6 8 51 119 4 8 Have passed all subjects up to the third semester 6 Introduction to Robotics 8 8 8 153 6 1 Automatic Control 6 Mandracturing Lab 8 151 51 102 4 1 Manufacturing Processes 6 Materials Testing Lab 8 151 51 102 4 1 Mechanics of Materials 6 Machine Shop Practice 6 8 51 119 4 8 Manufacturing Processes 6 Advanced Power Systems 8 5 68 153 6 1 Power Systems 6 6 6 1 Power Systems 8 5 68 153 6 Power Systems 8 6 51 119 7 Power Systems 8 19 Power Systems 9 5 68 153 9 Power Systems 9 8 153 1 Power Systems 9 Power Systems 9 8 153 1 Power Systems 9 Power Systems 9 8 153 1 Power Systems 9 8 153 1 Power Systems 9 8 153 1 Power Systems 9 Power Systems 9 8 153 1 Power Systems 9 Power Systems 9 8 153 1 Power Systems 9 Power System	5						
6 Optative (2)	Total sem	ester hours	561	442	1003	40.3	
6 Optative (2)							
6 Optative (3) 6 Introduction to Robotics 6 Introduction to Robotics 6 Introduction to Robotics 6 Natural Testing Lab 6 Nation Shop Practice 6 Advanced Power Systems 6 Advanced Power Systems 8 S 68 S 51 I I I I I I I I I I I I I I I I I I	6	Optative (I)	68	51	119	4.8	Have passed all subjects up to the third semester
6 Introduction to Robotics 85 88 153 6.1 Automatic Control 6 Mandacturing Lab 51 51 102 4.1 Manufacturing Processes 6 Materials Testing Lab 51 51 102 4.1 Manufacturing Processes 6 Materials Testing Lab 51 51 102 4.1 Manufacturing Processes 6 Materials Testing Lab 51 119 4.8 Manufacturing Processes 6 Advanced Power Systems 85 68 153 6.1 Power Systems 6 Advanced Power Systems 85 68 153 6.1 Power Systems 7 Optative (6) 7 7 7 7 7 7 7 7 7	6	Optative (2)	68	51	119	4.8	Have passed all subjects up to the third semester
6 Manufacturing Lab 51 51 102 4.1 Manufacturing Processes 6 Matchins Shop Practice 68 51 119 4.8 Manufacturing Processes 6 Advanced Power Systems 85 68 153 6.1 Power Systems 6 Advanced Power Systems 85 68 153 6.1 Power Systems 6 Advanced Power Systems 85 68 153 6.1 Power Systems 6 Advanced Power Systems 85 68 153 6.1 Power Systems 6 Advanced Power Systems 68 151 119 4.8 Have passed all subjects up to the third semester 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 Themal and Fluid Science Lab 51 51 12 4.1 Manufacturing Processes 7 Roundary and Welding Lab 6	6	Optative (3)	68	51	119	4.8	Have passed all subjects up to the third semester
Materials Testing Lab	6	Introduction to Robotics	85	68	153	6.1	Automatic Control
6 Materials Testing Lab	6	Manufacturing Lab	51	51	102	4.1	Manufacturing Processes
Advanced Power Systems			51	51	102	4.1	
Foundary and Welding Lab Foundary and Practice (I) Foundary and Practice (II) Foundary and Prac	6	Machine Shop Practice	68	51	119	4.8	Manufacturing Processes
Total semester hours	6	Advanced Power Systems	85	68	153	6.1	Power Systems
Total semester hours		,					,
7	6						
7	Total sem	ester hours	544	442	986	39.6	
7							
7 Optative (6) 68 51 119 4.8 Have passed all subjects up to the third semester 7 Thermal and Fluid Science Lab 51 51 102 4.1 Heat Transfer, Fluid Mechanics 7 Computer Aided Drawing Lab 68 51 119 4.8 Engineering Drawing 7 Foundry and Welding Lab 51 51 102 4.1 Manufacturing Processes 7 Mechanical Systen Design and Practice (1) 0 300 300 12.0 Have passed all subjects up to the sixth semester 7 NC Machine Lab 68 51 119 4.8 Machine Shop Practice 8 Mechanical Systen Design and Practice (II) 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 8	7	Optative (4)	68	51	119	4.8	Have passed all subjects up to the third semester
7 Thermal and Fluid Science Lab	7	Optative (5)	68	51	119	4.8	Have passed all subjects up to the third semester
7 Computer Aided Drawing Lab 68 51 119 4.8 Engineering Drawing 7 Foundry and Welding Lab 51 51 102 4.1 Manufacturing Processes 7 Nc Machinical Systen Design and Practice (I) 68 51 119 4.8 Machine Shop Practice 8 Mechanical Systen Design and Practice (II) 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the seventh semester 8 Image: Application of the stream of the seventh semester Image: Application of the seventh semester Image: Application of the seventh semester 8 Image: Application of the seventh semester Image: Application of the seventh semester Image: Application of the seventh semester 8 Image: Application of the seventh semester Image: Application of the seventh semester Image: Application of the seventh semester 8	7	Optative (6)	68	51	119	4.8	Have passed all subjects up to the third semester
Foundry and Welding Lab	7	Thermal and Fluid Science Lab	51	51	102	4.1	Heat Transfer, Fluid Mechanics
7 Mechanical Systen Design and Practice (I) 0 300 300 12.0 Have passed all subjects up to the sixth semester 7 NC Machine Lab 68 51 119 4.8 Machine Shop Practice 7 7	7	Computer Aided Drawing Lab	68	51	119	4.8	Engineering Drawing
7 NC Machine Lab 68 51 119 4.8 Machine Shop Practice 7 7	7	Foundry and Welding Lab	51	51	102	4.1	Manufacturing Processes
Total semester hours 442 657 1099 44.2 8 Mechanical Systen Design and Practice (II) 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the seventh semester 8 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the seventh semester 9 Have passed all subjects up to the sixth semester	7	Mechanical Systen Design and Practice (I)	0	300	300	12.0	Have passed all subjects up to the sixth semester
Total semester hours	7	NC Machine Lab	68	51	119	4.8	Machine Shop Practice
Number N	7						
8 Mechanical Systen Design and Practice (II) 0 300 300 12.0 Have passed all subjects up to the sixth semester 8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the seventh semester 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8							
8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the seventh semester 8	Total sem	nester hours	442	657	1099	44.2	
8 Practice Work Training in Commpany 0 300 300 12.0 Have passed all subjects up to the seventh semester 8							
8							
8		Practice Work Training in Commpany	0	300	300	12.0	Have passed all subjects up to the seventh semester
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8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8							
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8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							
8 Total semester hours 0 600 24.0							
Total semester hours 0 600 600 24.0							
	8						
	Total sem	ester hours	0	600	600	24.0	

TOTAL HOURS 3740 3858 7598

TOTAL CREDITS 304.8