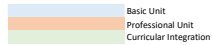




**ELECTRICAL ENGINEERING PROGRAM
FACE-TO-FACE MODE
CAMPUS: Cuenca, Quito, Guayaquil**

FIRST LEVEL				SECOND LEVEL				THIRD LEVEL				FOURTH LEVEL				FIFTH LEVEL				SIXTH LEVEL				SEVENTH LEVEL				EIGHTH LEVEL			
E01	LINEAR ALGEBRA	Prerequisite		E05	INTEGRAL CALCULUS	Prerequisite		E12	DIFFERENTIAL EQUATIONS	Prerequisite		E17	ELECTROMAGNETIC THEORY	Prerequisite		E22	ELECTRONICS	Prerequisite		E28	AUTOMATIC CONTROL I	Prerequisite		E33	AUTOMATIC CONTROL II	Prerequisite		E39	PROJECTS	Prerequisite	
CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A	
64	0	96		64	0	96		64	0	96		64	32	64		48	16	56		48	16	56		48	16	56		32	0	48	
E02	DIFFERENTIAL CALCULUS	Prerequisite		E07	STATICS	Prerequisite	E01	E13	DYNAMICS	Prerequisite		E18	NUMERICAL METHODS	Prerequisite		E23	TRANSFORMERS AND DIRECT CURRENT MACHINES	Prerequisite		E29	ALTERNATING CURRENT MACHINES	Prerequisite		E34	HIGH VOLTAGE	Prerequisite		E40	ELECTRICAL PROTECTIONS	Prerequisite	
CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A	
96	0	144		64	16	80		64	32	64		64	0	96		64	32	64		64	32	64		48	16	56		48	16	56	
E03	PROGRAMMING	Prerequisite		E08	ELECTRICAL CIRCUITS	Prerequisite		E14	CALCULATION OF SEVERAL VARIABLES	Prerequisite		E19	SIGNAL AND SYSTEMS	Prerequisite		E24	COMMUNITY SERVICE PRACTICES	Prerequisite						E35	ELECTRICAL MAINTENANCE	Prerequisite		E41	OPERATION AND CONTROL OF ELECTRICAL POWER SYSTEMS	Prerequisite	
CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		Horas							CD	PE	A		CD	PE	A		
64	32	64		64	64	32		64	0	96		64	0	96		80							32	32	16		48	16	56		
E101	APPLIED CHEMISTRY	Prerequisite		E09	ENERGY AND THE ENVIRONMENT	Prerequisite	E101	E15	POLYPHASE ELECTRICAL CIRCUITS	Prerequisite		E20	SOCIAL THOUGHT OF THE CHURCH	Prerequisite		E25	ITINERARY	Prerequisite		E30	FUNDAMENTALS OF ELECTRICAL POWER SYSTEMS	Prerequisite		E36	FAILURE ANALYSIS IN ELECTRICAL POWER SYSTEMS	Prerequisite		E42	RELIABILITY OF ELECTRICAL POWER SYSTEMS	Prerequisite	
CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A	
32	32	16		32	16	32		64	32	64		32	0	48		48	16	56		48	16	56		32	32	16		32	16	32	
E04	PHILOSOPHICAL-THEOLOGICAL ANTHROPOLOGY	Prerequisite		E10	ETHICS	Prerequisite	E04	E16	LIFE AND TRANSCENDENCE	Prerequisite	E10	E21	ELECTRICAL INSTALLATIONS	Prerequisite		E26	PROBABILITY AND STATISTICS	Prerequisite		E31	POWER ELECTRONICS	Prerequisite		E37	ELECTRICAL GENERATION PLANTS	Prerequisite		E43	DISTRIBUTION NETWORK DESIGN	Prerequisite	
CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A		CD	PE	A	
32	0	48		32	0	48		32	0	48		64	32	64		48	16	56		64	48	48		32	32	16		48	16	56	
	E11	CRITICAL THINKING	Prerequisite																												
	CD	PE	A																												
	32	0	48																												
	E05	ORAL AND WRITTEN COMMUNICATION	Prerequisite																												
	CD	PE	A																												
	16	16	8																												
TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM				TOTAL HOURS IN THE TERM			
CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS	CD	PE	A	HORAS
288	64	368	720	288	96	336	720	288	64	368	720	288	64	368	720	256	96	288	640	288	112	320	720	192	128	160	720	192	80	208	480

Legenda:



Code Course	Course Name			Prerequisite
CD	PE	A		

CD: Teacher Contact
PE: Practical Experimental Learning
A: Autonomous Learning

ITINERARY 1: SMART GRID

Unidad	LEVEL	Asignatura	Total Hours
Professional	5	Automation and Monitoring in Electrical Systems	120
Professional	6	Communications for Electrical Systems and Smart Grids	160

ITINERARY 2: EFICIENCIA ENERGÉTICA EN EDIFICIOS

Unidad	LEVEL	Asignatura	Total Hours
Professional	5	Energy Management and Auditing in Buildings	120
Professional	6	Lighting Design and Domotics	160

ITINERARY 3: APLICACIONES INDUSTRIALES DE LA ENERGÍA

Unidad	LEVEL	Asignatura	Hours
Professional	5	Energy Management and Audit in Industry	120
Professional	6	Electrical Motion Systems and Climate Control Systems	160

Summary of Learning Hours

Teacher Contact	2080
Practical Experimental Learning	704
Autonomous	2416
Pre-professional Internships	240
Community Service Internships	80
Curricular Integration	240
Total Hours	5760