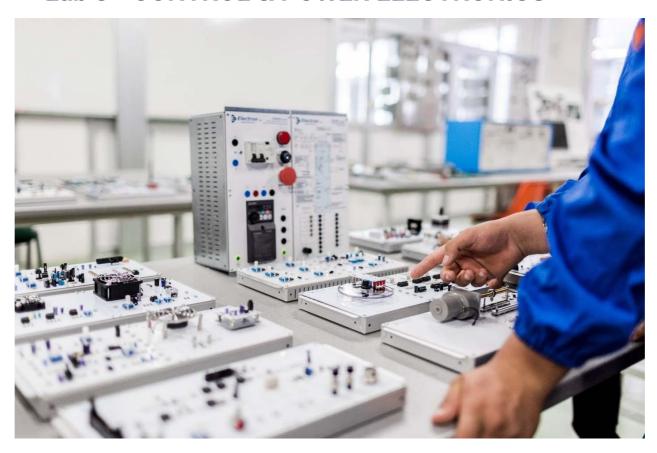
## **Lab 8 - CONTROL & POWER ELECTRONICS**



This laboratory includes various modules to experiment circuits and principles commonly recurrent in the field of power electronics, transducers, and controls.

It is organized in a modular form and consists of a set of experiment boards with a common power supply. Also included are actuators and interface with software for connecting the modules to a PC. Each module is provided with a user manual that explains its characteristics and use.

## TRAINING STATIONS LIST

8.1	TRANSDUCERS AND CONTROLS
8.2	PROCESS CONTROL
8.3	POWER ELECTRONICS

## **Equipment List**

LAB N°	Item N°	TITLE	CODE		Tot al Qty	Stud WS 1	Stud WS 2	Stud WS 3	Stud WS 4	Stud WS 5	Stud WS 6	Stud WS 7	Stud WS 8	Teach WS	LAB
		CONTROL & POWER ELECTRONICS													
8		LABORATORY For 16 to 32 students working at the same time.													
		See complete catalogue to see product description and other details.													
		TRANSDUCERS AND CONTROLS ELECTRONICS	6350												
8	1 1	TRANSDUCERS AND CONTROLS BASIC TEMPERATURE CONTROL TRAINER	C35B B3510A	C3510A	4	1	1	1	1	1	1				
8		LIGHT CONTROL TRAINER	B3510C	C3510C	4	1	1			1	1				
8		SPEED CONTROL TRAINER SOUND AND VIBRATION TRANSDUCERS TRAINER	B3510G B3510H	C3510G C3510H	4	1	1			1	1				-
- 8		POSITION CONTROL TRAINER	B3510J	C3510J	4	1	1			1	1				
8		ON/OFF SENSORS AND ACTUATORS TRAINER	B3510L	C3510L	4			1	1			1	1		
8		AIR FLOW MEASUREMENTS TRAINER DIFFERENTIAL PRESSURE TRANSDUCERS TRAINER	B3510M B3510N	C3510M C3510N	4			1	1			1	1		
8		ROTATIONAL POSITION ENCODERS TRAINER	B3510P	C3510P	4			1	1			1	1		
8		FLUID LEVEL TRANSDUCERS TRAINER	B3510U	C3510U	4	1	-	1	1	- 1	-	1	1		$\blacksquare$
8	1 11	AC DC POWER SUPPLY	C12 PS		8	1	1	1	1	1	1	1	1	ļ!	
8		PROCESS CONTROL TRAINER													_
8		PROCESS SIMULATOR	B3510D B3510E	C3510D C3510E	4	1	1			1	1				Щ
- 8		PROCESS CONTROLLER TRAINER FAULT PROGRAMMER	FS1E	COOTOR	1	1	1	<b> </b>		1	1				1
8		AC DC POWER SUPPLY	C12 PS		8	1	1	1	1	1	1	1	1		
8		TRANSDUCERS AND CONTROLS (EXPANSION)	C35U												_
8		R,L,C, MEASUREMENTS TRAINER	B3510B	635105	2	1				1					
8 8		STRAIN GAUGE TRAINER ULTRASONICTRANSDUCERS TRAINER	B3510F B3510I	C3510F	2	1	1			1	1				$\Box$
8	3 4	VARIABLE CAPACITANCE TRANSDUCERS (LVCT) TRAINE R	B3510K		2		1				1				
8		LINEAR VARIABLE DIFFERENTIAL TRANSFORMER TRAIN ER	B3510Q		2			1	1			1	1		$\vdash$
8		AC MOTOR CONTROL TRAINER STEPPER MOTOR CONTROL TRAINER	B3510S B3510T	C3510T	4			1	1			1	1		
		·		•				•			•			,	
8		POWER & CONTROLS ELECTRONICS													—
- 8		POWER ELECTRONICS (BASIC)	B36B												—
8		POWER ELECTRONICS TRAINER		C3600	2	1				1	_				
8		INDUSTRIAL ELECTRONICS TRAINER  DC MOTOR CONTROL WITH THYRISTORS		C3601 C3607	2		1	1	1		1	1	1		
8		AC MOTOR CONTROL TRAINER (PWM)		C3620 GS	2				1				1		
8		DC MOTOR CONTROL TECHNOLOGY TRAINER	B3650 A4220SL		2	1				1					-
8		SQUIRREL CAGE MOTOR DC COMPOUND EXCITATION MOTOR-GENERATOR	A4240SL		2	1				1					$\Box$
8	4 8	BRAKE GENERATOR	A4430S		2	1				1					
8		VARIABLE LOAD FOR BRAKE GENERATOR TACHO GENERATOR	A4430RS A4880		2	1				1					$\vdash$
	7 10	TACTO GENERATOR	A-1000					l	l						
- 8		POWER & CONTROLS ELECTRONICS EXPANSION	B36U												
- 8	5 1	DC MOTOR CONTROL TRAINER (PWM)	B3610G		2	1			i	1					
8		TACHO GENERATOR / BRAKING UNIT	B3611		2		1				1				
8 8		PC INTERFACE FOR DC MOTOR CONTROLLERS STEPPER MOTOR TRAINER	B3626	C3615	2		1	1			1	1			
- 8		BRUSHLESS DC MOTOR TRAINER	B3628		2			1				1			
8		ANALOG SERVO SYSTEM TRAINER DIGITAL SERVO SYSTEM TRAINER	B3660 B3665		2				1				1		$\vdash$
•	3 /	DIGITAL SERVO 3131 EIVI I RAIINER	B3003			l		l	1	l			1	l I	
															_
		FURNITURE METERS DOWER CURRINGS & ACCRECANCE													—
FM		FURNITURE, METERS, POWER SUPPLIES & ACCESSORIES FURNITURE													
FM	1 1	WORK TABLE	F1110A		8	1	1	1	1	1	1	1	1		
FM		MOBILE LOWER CABINET	F11 4146		8	1	1	1	1	1	1	1	1		二
FM FM		STUDENT STOOL TEACHER'S DESK	F11 1718 F11 2126		24 1	3	3	3	3	3	3	3	3	1	$\vdash$
FM		TEACHER'S CHAIR	F11 5000		1									1	
FM		CABINET FOR TOOLS & INSTRUMENTS	F11 3310	-	4										4
FM	1 7	TROLLEY	F1151 R1		4	ļ		<b>!</b>	ļ	ļ	l			l	4
															_
FM FM	2 1	MEASURING INSTRUMENTS & POWER SUPPLIES  ANALOGUE MULTIMETER	AM 7080		4	1		1	1	1					4
FM		DIGITAL MULTIMETER	DM Y68		4										4
FM	2 6	DUAL TRACE OSCILLOSCOPE	AO HZ431	18	2										2
															—