

EGAC Scope for Accreditation Schemes:

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
1	Calibration Laboratories	A	Electrical quantities/DC and Low Frequency (< = 1 MHz) quantities	1	Voltage
				2	Current
				3	Voltage Ratio
				4	AC/DC transfer (voltage and current)
				5	Power and Energy
				6	Resistance
				7	Capacitance
				8	Inductance
				9	Dissipation Factor
				10	Oscilloscope Functions
				11	Process calibrators
				12	Logic State Analysis
				13	High Voltage quantities
		B	Electrical quantities/Microwave & High Frequency (> 1 MHz) quantities	1	Modulation (AM, FM, PM)
				2	Impedance (reflection coefficient)
				3	Power
				4	Attenuation
				5	Adaptors
				6	Antennas
				7	Function Generation
				8	Spectrum Analysis
				9	S-parameters
				10	Noise
				11	Electric/Magnetic Field quantities
		C	Magnetic quantities	1	Magnetic Flux Density
				2	Magnetic Material properties
		D	Time and Frequency	1	Time Interval
				2	Frequency
				3	Rise/Fall Time
				4	Phase Angle
		E	Dimensional Quantities	1	Length Measurements:
				1.a	Laser Wavelength
				1.b	Length Gages
				1.c	Line Scales & Distances
				1.d	Length Measuring Instruments
				1.e	Diameter
				1.f	Form Error
		1.g	Roughness		

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		Code	Name	Code	Name
				1.h	Thread quantities
				1.i	Coordinate Measuring Machines
				1.j	Machine Tools
				1.k	Work Pieces
				2	angle measurements:
				2.a	Angle Gages
				2.b	Index Tables
				2.c	Clinometers
		F	Mechanical quantities	1	Force
				2	Mass, Weights, & Weighing
				3	Pressure & Vacuum quantities
				4	Torque & Strain Gauges
				5	Acceleration, Speed, & Vibration;
		G	Acoustical quantities	1	Microphones
				2	Sound Level
				3	Artificial Mastoids
				4	Noise Dosimeters
		H	Fluid quantities	1	Gas and Liquid Flow Rate
				2	Volume of Flowing Gases and Liquids
				3	Velocity of Gases
				4	Mass, Volume, & Density of Gases/Liquids
				5	Viscosity
		I	Optical quantities	1	Quantities of Optical Radiation
				2	Photometric quantities
				3	Optical System properties
				4	Lasers
				5	Fiber Optics
		J	Thermophysical properties	1	Resistance Thermometry
				2	Thermocouples
				3	Liquid-In-Glass Thermometers
				4	Radiation Thermometers
				5	Humidity
		K	Medical Equipment	1	Airway/Low/High Pressure
				2	Volume (Low/High) Flow, Air Flow Speed
				3	Heart Rate, Synchronization, External Non-Invasive Pacer
				4	Respiration, Oxygen Concentration
				5	Pulse Amplitude/ Rate/ Width, & A -V Interval
				6	Function generation
				7	R-wave Detection
				8	Temperature, Relative Humidity

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		Code	Name	Code	Name	
				9	Electrical properties: (Voltage, Earthlings, Leakage ...)	
		L	Environmental Equipment	1	Particle size/counter devices	
						Air content analyzers
						Water content analyzers
2	Testing Laboratories:					
		Testing Technology:				
		A	Chemical	1	Wet Chemistry	
					2	Spectroscopy
					3	Chromatography
					4	Surface Analysis Techniques
					5	Electrochemical
					6	Thermal Analysis
					7	Combustion
					8	Corrosion
		B	Physical Properties	1	Density	
					2	Particle size
					3	Porosity
					4	Colligative properties
		C	Mechanical Quantities	1	Tensile	
					2	Compression
					3	Shear
					4	Torsion
					5	Fracture
					6	Impact Resistance
					7	Hardness
					8	Material properties
					9	Metallography
					10	Machines: (such as Impact Testing Machines, Tensile Machines ...)
		D	Electromagnetic properties	1	Electrical Resistance	
					2	Electrical Current
					3	Electrical Voltage
					4	Electromagnetic Compatibility EMC
		E	Environmental Tests	1	Potable Water (organisms, organic ...)	
					2	Non-potable (Sea Water, Irrigation ...)
					3	Waste Water (industrial, agricultural...)
					4	Water Sediments & Mussels
					5	Radiochemistry
					6	Solid/Hazardous Waste
					7	Lead
					8	Asbestos
					9	Air [Chemical (content, contamination ...) & Physical (particles, color, density ...)]

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		Code	Name	Code	Name		
		F	Biological Testing	1	Virology		
				2	Bacteriology		
				3	Biology		
				4	Microbiology		
		G	Others	1	Sensory testing		
				2	Thermodynamics		
		Products Testing:					
		H	Construction Material	1	Concrete		
				2	Cement		
				3	Masonry		
				4	Bituminous Materials		
				5	Asphalts, Road Oils, & Tars		
				6	Lime and Limestone		
				7	Marble		
				8	Soils		
				9	Doors & windows (Frames, Locks ...)		
		I	General Materials	1	Adhesives and sealants		
				2	Fasteners		
				3	Agricultural		
				4	Animal Products		
				5	Foods (animal & vegetal food, dietary, beverages, ...)		
				6	Animal Feeds		
				7	Additives & Supplements		
				8	Fertilizers		
				9	Residues in food and agricultural products		
				10	Herbicides, Insecticides, & Pesticides		
				11	Mineral Water		
12	Seeds & Grains						
13	Soil and Plant Analysis						
14	Fuels: (Gaseous, Liquid, Solid)						
15	Petroleum Products						
16	Coal						
17	Lubricants						
18	Oil & Soap						
19	Drugs						
20	Ferrous Metals						
21	Non Ferrous Metals						
22	Plastics & Polymers						
23	Rubber & rubber products						
24	Leather						
25	Paint						
26	Textile						
27	Carpet & Floor Covering						

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		Code	Name	Code	Name
				28	Pharmaceutics
				29	Paper
				30	Cigarettes & Tobacco
				31	Wood
				32	Glass
				33	Ceramics
				34	Leather
				35	Coating
				36	Electrical Cables & Insulations
				37	Car Spare parts
				38	Home Appliances
				39	Fire Protection Equipment
				40	Telecommunication Equipment (TV & Radio)
				41	Air Conditioners
				42	Lighting
				43	Foam & Packing Materials