

## Scope of EGAC for Accreditation Fields:

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
		C	Magnetic quantities	1	Magnetic Flux Density
				2	Magnetic Material properties

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
		<b>D</b>	<b>Time and Frequency</b>	<b>1</b>	Time Interval
				<b>2</b>	Frequency
				<b>3</b>	Rise/Fall Time
				<b>4</b>	Phase Angle
		<b>E</b>	<b>Dimensional Quantities</b>	<b>1</b>	Length Measurements:
				<b>1.a</b>	Laser Wavelength
				<b>1.b</b>	Length Gages
				<b>1.c</b>	Line Scales & Distances
				<b>1.d</b>	Length Measuring Instruments
				<b>1.e</b>	Diameter
				<b>1.f</b>	Form Error
				<b>1.g</b>	Roughness
				<b>1.h</b>	Thread quantities
				<b>1.i</b>	Coordinate Measuring Machines
				<b>1.j</b>	Machine Tools
				<b>1.k</b>	Work Pieces
				<b>2</b>	angle measurements:
				<b>2.a</b>	Angle Gages
				<b>2.b</b>	Index Tables
				<b>2.c</b>	Clinometers
		<b>F</b>	<b>Mechanical quantities</b>	<b>1</b>	Force
				<b>2</b>	Mass, Weights, & Weighing
				<b>3</b>	Pressure & Vacuum quantities
				<b>4</b>	Torque & Strain Gauges
				<b>5</b>	Acceleration, Speed, & Vibration;
		<b>G</b>	<b>Acoustical quantities</b>	<b>1</b>	Microphones
				<b>2</b>	Sound Level

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
				3	Artificial Mastoids
				4	Noise Dosimeters
		<b>H</b>	<b>Fluid quantities</b>	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
		<b>I</b>	<b>Optical quantities</b>	1	Quantities of Optical Radiation
				2	Photometric quantities
				3	Optical System properties
				4	Lasers
				5	Fiber Optics
		<b>J</b>	<b>Thermophysical properties</b>	1	Resistance Thermometry
				2	Thermocouples
				3	Liquid-In-Glass Thermometers
				4	Radiation Thermometers
				5	Humidity
		<b>K</b>	<b>Medical Equipment</b>	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
				9	Electrical properties: (Voltage, Earthlings, Leakage ...)
		<b>L</b>	<b>Environmental</b>	1	Particle size/counter devices

No	Fields	Major Discipline		Major Sub- Discipline		
		Code	Name	Code	Name	
			Equipment		Air content analyzers	
					Water content analyzers	
2	Testing Laboratories:					
		<b>Testing Technology:</b>				
		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	

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		Code	Name	Code	Name
				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 ...)]
		F	Biological Testing	1	Virology
				2	Bacteriology
				3	Biology
				4	Microbiology
		G	Others	1	Sensory testing
				2	Thermodynamics
<b>Products Testing:</b>					
		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

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
				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
				28	Pharmaceutics
				29	Paper

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
				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