

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
				11	Electric/Magnetic Field quantities
		C	Magnetic quantities	1	Magnetic Flux Density
				2	Magnetic Material properties
		D	Time and Frequency	1	Time Interval

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

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

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

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

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

No	Fields	Major Discipline		Major Sub- Discipline	
		Code	Name	Code	Name
				42	Lighting
				43	Foam & Packing Materials