



Professional Diploma In Pediatric Intensive Care Program Specifications (2025-2027)

Program content

Different topics that will be covered in the different modules are included in the following table:

Modules	Topic	Items	Lecture duration	Workshop duration
Module 1 (Basics of emergency and intensive care)	Resuscitation and initial management of the acutely ill child	Evaluation of the sick child	1.5	-
		BLS workshop	-	5
		Airway management workshop	-	4
		PALS workshop	-	5
	Stabilization	haemodynamic monitoring	1.5	-
		Thermoregulation	1	-
		IV fluids, dehydration	1.5	-
		Electrolyte & acid-base disturbances	1.5	-
	Trauma, accidents and environmental emergencies	Burns, Electrical Injuries, and Smoke Inhalation	1.5	-
		head & spine injury	1.5	-
		Orthopedic emergencies	1.5	-
		Burns, Electrical Injuries, and Smoke Inhalation	1	-
		transport of critically ill patients	1	-
		Non-accidental injury	1	-
		prevention of accidents	1	-
Fire , disasters		1	-	
Module 2 (System and patient-oriented critical and	Cardiovascular system	cardiovascular physiology	1.5	-
		Types and management of shock	1	-
		Heart failure,	1.5	-
		Allergy and anaphylaxis in ER	1	-
		hypertensive emergencies ,	1	-



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intensive care conditions)		approach to cyanotic heart disease	1.5	-	
		Arrhythmia workshop	-	4	
	Respiratory system		respiratory physiology & lung functions	1.5	-
			Respiratory emergencies, acute asthma	1.5	-
			acute respiratory failure	1.5	-
			MV workshop	-	5
			aerosol workshop	-	2
	Gastrointestinal & hepatic		Gastrointestinal emergencies (FB &, GI bleeding)	2	-
			acute GE	1	-
			Hepatic encephalopathy	1	-
			Corrosive ingestion	1	-
			Electrolyte disturbance in GE	1	-
	Endocrine		Disorders of Glucose homeostasis , DKA ,HHS	1.5	-
			Systemic diseases in endocrinology	1.5	-
			Hypoglycemia	1	-
			CAH	1	-
			Adrenal insufficiency	1	-
	Renal		Systemic diseases in nephrology	1.5	-
			Acute Kidney Injury	1	-
			Dialysis in emergency & PICU (indications & modalities)	1	-
	Neurology		EEG in PICU	-	5
			EMG and NCS in PICU	1	-
			Neuroimaging in PICU -	1.5	-
			Altered consciousness	1	-
			Systemic conditions manifesting as neurological conditions	1.5	-
			CNS infections -TB	1	-
			Acute presentations of in-born errors of metabolism	1.5	-
			Stroke	1	-
			Meningitis and encephalitis	1.5	-
			Status epilepticus	1	-



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	Hematology	Hematological emergencies (crises)	1.5	-	
		Bleeding tendency, coagulation & thrombotic disorders	1.5	-	
		Transfusion: indications, precautions and reactions	1	-	
		Oncological emergencies	1.5	-	
		Anticoagulants Management of coagulopathies in sepsis and DIC	1.5	-	
	Skin	Skin & mucous membrane disorders in ER and PICU	1.5	-	
Setting and management of PICU	Audit .		1	-	
	Research and EBM		2	-	
	Clinical governance		1.5	-	
	Communication skills		1.5	-	
	Morbidity and mortality reports		1	-	
	Medical Ethics		1	-	
	Infections in ER and PICU and infection control	Community-acquired infections		1.5	-
		Infection control		2	-
		Antibiotic use and stewardship		1.5	-
		Sepsis		1	-
Community acquired pneumonia		1	-		
Notifiable conditions		1	-		
Perioperative care			1	-	
Pharmacology and toxicology	Sedation & analgesia		1	-	
	ER and PICU medications		1.5	-	
	Poisoning		1	-	
Imaging in PICU /ER + fast + pocus	Chest and pocus and neuroimaging workshop		-	5	
Fast and cardiac imaging workshop	Imaging in PICU /ER + fast + pocus		-	5	
Total			82	40	