

Course Plan of (Critical care nursing)

I. Course Description:

The course concerns on the study of the common critical care diseases as acute respiratory distress syndrome, status asthmaticus, acute coronary syndrome, myocardial infarction, acute abdomen, acute gastro-intestinal hemorrhage, acute kidney injury, stroke, head and spinal cord injury, and thyroid storm, diabetic ketoacidosis, hypoglycemia and adrenal crisis. It also teaches therapeutic management as invasive mechanical ventilation, noninvasive ventilation, catheterization, ablation therapy, dialysis, and craniotomy.

II. Course Content:

A – Theoretical Aspect

Order	Units/Topics List	Sub Topics List/ weekly	Number of Weeks	Contact hours
1	Pulmonary alterations	Pulmonary review - Anatomy, physiology, & pathophysiology - Health assessment & diagnostic procedures Pulmonary disorders, - Acute lung failure, ARDS, - Pneumonia, aspiration pneumonia, Pulmonary embolism, & edema - Status asthmaticus, Air leak disorders, Atelectasis - Chest physiotherapy: breathing exercise, postural drainage, nebulization Pulmonary therapeutic management - Oxygen therapy, Artificial airways, - Invasive mechanical ventilation, Noninvasive ventilation, - Positioning therapy, - Thoracic surgery, Lung	3	12

		transplant ▪ Chest tube insertion and care		
2	Cardiovascular alterations	Cardiovascular Review - Anatomy, Physiology & Pathophysiology - Health Assessment - Diagnostic Procedures - Assessment & Monitoring Cardiovascular Disorders, - Atherosclerotic Diseases; Acute Coronary Syndrome: MI, angina, Dysrhythmia - Heart Failure, Cardiomyopathy, Endocarditis - Congenital heart diseases, Valvular Heart Disease, - DVT, - Hypertensive Emergency, Cardiovascular Therapeutic Management, - Catheterization, Ablation therapy - Pacemakers, Implantable Cardioverter, defibrillators - Fibrinolytic Therapy, - Cardiac Surgery, PTCA, CABG, Cardiac transplant, Mechanical Circulatory Assist Devices - Extra corporeal membrane oxygenation	3	12
3	Gastrointestinal alterations	Gastrointestinal review - Review of GIT anatomy, physiology, pathophysiology - GIT health assessment & diagnostic procedures Gastrointestinal disorders - Acute abdomen, acute pancreatitis, acute liver failure - Perforative peritonitis, Acute intestinal obstruction, Acute GIT hemorrhage, Abdominal injury Gastrointestinal therapeutic management - Gastrointestinal surgeries - Liver transplant	3	12

		- Gastrointestinal surgery, - Therapeutic management		
4	Kidney Alterations	Review of Kidney - Anatomy, physiology & pathophysiology - Clinical Assessment - Diagnostic Procedures Kidney Disorders and Therapeutic Management, - Acute Kidney Injury, - Acute tubular necrosis - Chronic renal failure - Renal Replacement Therapy: Dialysis, - Renal transplant	2	8
		Midterm exam	1	4
5	Neurologic Alterations	Review of Neurology - Anatomy, physiology, & pathophysiology - Health assessment and Diagnostic Procedures, - Bedside Monitoring, Neurologic Disorders - Stroke, Seizure disorder - Head injury, Spinal cord injury, Thermoregulation - Encephalopathy - Guillain-Barré Syndrome, Neurologic Therapeutic Management, - Assessment of ICP - Craniotomy, - Pharmacologic Agents	1	4
6	Endocrine alterations	Review of Endocrine - Anatomy, physiology, & pathophysiology ✓ Pancreas, Pituitary Gland and Hypothalamus, ✓ Thyroid & Adrenal Gland - Endocrine Clinical Assessment & Diagnostic Procedures Endocrine Disorders and Therapeutic Management, ✓ Diabetic Ketoacidosis, hypoglycemia, Hyperglycemic Hyperosmolar State, Diabetes	1	4

Faculty of HIGH Nursing

		Insipidus, ✓ Syndrome of Inappropriate Secretion of Antidiuretic Hormone, ✓ Thyroid Storm, Myxedema Coma, Adrenal crisis ✓ Endocrine therapeutic management		
	final exam		1	4
Number of Weeks /and contacts Hour Per Semester			16	60

B - Practical Aspect: (if any)

Order	Tasks/ Experiments	Number of Weeks	contact hours
	Pulmonary alterations	4	8
	Cardiovascular alterations	4	8
	Gastrointestinal alterations	2	6
	Kidney Alterations	2	4
	Neurologic Alterations	2	4
	Endocrine alterations	2	2
Number of Weeks /and contacts HourPer Semester/16			32