CO1.1-APPLIED ANATOMY AND PHYSIOLOGY

S.NO	TOPIC	OUTCOME
1.1.1	GENERAL	➢ After the completion of the TOPIC the student
		 After the completion of the TOPIC the student shall be able to know Know the levels of organization in the living world. Know the organization of the human body by cavities and anatomical terminology. Able to Understand the structure of matter and how it relates to cellular metabolism Can Understand the structure and function of a variety of cells contained in the human body. Can be able to Distinguish between groups of cells and tissues. Can Relate the components of the integumentary system to the levels of organization. Explain the structure and function of bones. Know the major divisions of the human skeleton. Name, understand, and show by example the variety of joints in the human skeleton.
		 Learn a majority of the human bones by scientific name and location. Name, understand, and show by example the
		 tissue. Learn the scientific names and locations of a select group of human muscles. Demonstrate and name muscle and joint actions After completion of the topic the student shall be able to Describe the structure and function of a neuron. Understand the steps involved in the transmitting
		of a nerve impulse.➢ Explain several nerve pathways.

	Demonstrate several reflex actions on another
	person.
	Understand the structure and function of the
	brain and spinal cord.
	Identify the various types of sensory receptors.
	List and understand the operation of the human
	senses.
	Relate the importance of hormones to the
、 、	functioning of the human body.
	Describe the endocrine glands and the hormones
	they produce
\checkmark	Know the general structure and function of the
	alimentary canal.
	List the organs of the digestive tract by
	anatomical location.
	Understand the mechanisms of breathing and
	alveolar gas exchange.
\succ	Identify blood cells by type and function.
\succ	Know the structure and function of the heart.
\triangleright	Measure pulse and blood pressure.
\triangleright	Distinguish between veins and arteries.
\checkmark	Understand the body's defense mechanisms.
\blacktriangleright	Know the organs of the urinary system.
\triangleright	Understand the process of waste removal in the
	human body.
\succ	Know the male reproductive organs by name and
	function
\succ	Know the female reproductive organs by name
	and function.
\succ	Understand the female menstrual cycle.
\checkmark	Understand the roles of various hormones in the
	reproductive cycle.
\checkmark	Describe the stages of pregnancy and the birth
	process.
	-

CO1.2 FUNDAMENTALS OF DIALYSIS

S.NO	TOPIC	OUTCOME
1.2.1	GENERAL ASSESSMENT	 After The Completion Of This Topic Student Will Be Able To Understand The General Vital Sign Assessment And Examination Of Patient. Student Will Be Able To Understand The Main Aim Of This Topic Is To Take Patients General Assessment Before, During And After The Dialysis. Student Will Be Able To Take All The Vital Signs And Their Normal Ranges.
1.2.2	INVESTIGATI ONS RELATED TO DIALYSIS	 After Completion Of This Topic Student Will Be Able To Read And Understand The Investigations Report Of Patient. Student Will Be Able To Understand The Normal Ranges Of Components Or Electrolytes. Student Will Be Able To Understabd The Abnormalities And Diagnose The Problem Or Disease.
1.2.3	RENAL DISEASES	 After The Completion Of This Topic Student Will Be Able To Understand The Introduction, Causes, Symptoms, Preventions And Treatment Of All Renal Diseases. This Topic Contains Some Different Renal Diseases Such As Acute & Chronic Renal Failure, Urinary Tract Infection, Acute Nephritis And Nephrotic Syndrome. Student Will Be Able To Understand The Brief Description Of All Renal Diseases. Student Will Be Able To Diagnose These Diseases And To Discuss The Causes And Preventions And Treatment Of All The

		Diseases.
1.2.4	EFFECT OF	After The Completion Of This Topic
1,2,7	KIDNEY	Student Will Be Able To Understand The
	FAILURE ON	Disease, Problems And Effects Of Renal
	CARDIOVASC	Failure Or Dialysis On Cardiovascular
	ULAR	System.
	SYSTEM	Student Will Be Able To Diagnose And
		Understand The Cardiovascular Problems.
		Student Will Be Able To Treat The Patient
		With These Problems With Dialysis Or
		Any Other Medically Or Surgically Managements.
1.2.5	EFFECT OF	 After the completion of this topic student
	KIDNEY	will be able to understand the whole system
	FAILURE ON	in brief and their problems or diseases
	NERVOUS	related to Nervous System.
	SYSTEM	After the topic will be complete student
		will be able to understand the different or
		every disease whichare affected or caused
		due to renal failure.
		Student will be able to manage medically the problem or apply the surgically
		the problem or apply the surgically management as soon as possible provided.

1.2.6	EFFECT OF	> After the completion of this topic student
1.2.0		
	KIDNEY	will be able to understand the system in
	FAILURE ON	brief.
	RESPIRATOR	Student will be able to diagnose and
	Y SYSTEM	identify the problem is related to
		Respiratory System.
		Student will be able to treat the problem
		medically and if patient is needy of
		surgically management he/she will be able
		to give patient as soon as possible.
1.2.7	EFFECT OF	After the completion of this topic student
	KIDNEY	will be able to understand the system in
	FAILURE ON	detail.
	MUSCULOSK	Student will be able to diagnose and
	ELETAL	identify the problems related to
	SYSTEM	musculoskeletal system.
		After the completion of this topic student
		will be able to manage the problem
		medically and give the patient surgically
		management as soon as possible.
1.2.8	PRINCIPLES	After the completion of this topic student
	AND TYPES	will be able to understand the introduction
	OF DIALYSIS	of dialysis that what is dialysis actually.
		Student will be able to understand the
		principles of Dialysis i.e., diffusion,
		Osmosis & Ultrafiltration on which dialysis
		work.
		Student will be able to understand the types
		of Dialysis and which one is better than the
		other.
		Stdents will be able to perform the procedures and understand the principles on
		procedures and understand the principles on which clearence is depend or excess water
		which clearence is depend or excess water
		removal done.

1.2.9	VASCULAR	After the completion of this topic student
	ACCESS FOR	will be able to identify that which kind of
	DIALYSIS	vascular access patient have.
		Student will be able to manage and take
		good care of vascular access of patient.
		Student will be able to use the access in
		dialysis and take the assessment of access.
		Student will be able to understand the
		diffwerent types of vascular access and
		how to use it.
1.2.10	ANTICOAGUL	After the completion of this topic student
	ATION :	will be able to understand introduction and
	PRINCIPLES	storage of blood and its components.
	AND	Student will be able to understand the types
	PROBLEMS	of anticoagulalants and their principles and relatively problems.
		Student will be able to know the levels/
		limits and duration of anticoagulant used in
		Dialysis.
		Student will be able o understand that how
		to use the anticoagulant in Dialysis in
		which proprtion.