

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)

Kumaracoil, Thuckalay, Kanyakumari District - 629 180

Accredited by NAAC with 'A' Grade

DT26 BSc RENAL DIALYSIS TECHNOLOGY



Student Performance and Learning Outcomes

DT26 BSc RENAL DIALYSIS TECHNOLOGY

Programme Outcome(PO)	
PO-A	Students are familiar with basic subjects of Renal Dialysis technology.
PO-B	Knowledge on the inter disciplinary subjects make them excel in the programme.
PO-C	Performs the health care procedures based on their theoretical knowledge.
PO-D	Based on the theoretical knowledge obtained students will be able to identify the signs and symptoms of diseases and new solutions can be formulated.
PO-E	Knowledge on dialysis will help them to diagnose the critical complications and identify solutions to them.
PO-F	Provide health education to the society in mitigating health problems through healthy lifestyle.
PO-G	Giving awareness to the society regarding the prevention of health issues and the existing technologies to identify the kidney problems.
PO-H	Group assignments and projects will make them to understand and co operate with co-workers.
PO-I	Students will be able to develop skills of effective communication and principles of team work.
PO-J	Clinical experience enables them to understand their roles and responsibilities as professionals.
PO-K	Designing new methods in care of patients through research in concern with the social ethics.
PO-L	Innovating cost effective technology which can be affordable for all sectors of the society.
PO-M	Motivating the students to ensure health care services to society by upgrading their knowledge.

PROGRAMME SPECIFIC OUTCOME(PSO)	
PSO-1	On successful completion of the course students will acquire basic knowledge about hemodialysis and various aspects of peritoneal dialysis
PSO-2	To gain knowledge on fundamental principles of dialysis in special situations and their various acquaintances
PSO-3	To effectively understand various disorders affecting renal sphere
PSO-4	To gain knowledge about the various circumstances for renal transplantation and various aspects dealt with it
PSO-5	This programme could provide well trained professionals for the dialysis unit and overall technical assistance

Sl.No	Subject Code	Subject Name
SEMESTER II		
1.	BS2605	PATHOLOGY
2.	BS2606	MICROBIOLOGY
3.	BS2607	PHARMACOLOGY
4.	BS2608	PSYCHOLOGY
5.	BS2609	INTRODUCTION TO COMPUTERS
6.	BS2674	PATHOLOGY LAB
7.	BS2675	MICROBIOLOGY LAB
8.	BS2676	PHARMACOLOGY LAB
SEMESTER IV		
9.	BS26S5	PATIENT CARE AND BASIC NURSING
10.	BS26S6	BIostatISTICS AND RESEARCH METHODOLOGY
11.	BS26S7	CONSTITUTION OF INDIA
12.	DT2604	BASIC CONCEPTS OF RENAL DISEASES
13.	DT2605	ACUTE AND CHRONIC KIDNEY DISEASES AND NUTRITION
14.	BS2674	PATIENT CARE AND BASIC NURSING LAB
15.	DT2674	BASIC CONCEPTS OF RENAL DISEASES LAB
16.	DT2675	ACUTE AND CHRONIC KIDNEY DISEASES AND NUTRITION LAB

Pathology – BS2605	
CO1	Enable the students to understand the scope of pathology
CO2	Helps to know about the basic terminology of hematological disorder
CO3	Enhances the students to understand basic knowledge of hematological techniques
CO4	Students will acquire knowledge about the transfusion medicine
CO5	Students are enable to understand the concepts of clinical pathology

Microbiology – BS2606	
CO1	Understand the taxonomic classification of microorganisms and various sterilization methods
CO2	Understand and identify common bacterial infectious agents and the disease that they cause
CO3	Learn basic technical terminology of bacterial, mycobacterial and parasitology
CO4	Know the morphology and diagnostics methods for various fungal infections
CO5	Understand the interaction between viruses and its host and know the preventive measures of viruses

Pharmacology – BS2607	
CO1	Students are able to understand regarding the general pharmacology including pharmacokinetics and pharmacodynamics of adrenergic drugs
CO2	Students will be able to enlist skeletal muscle relaxants, ionotropic drugs, antihypertensives and diuretics
CO3	Students will be able to understand regarding general anesthetics, antiepileptics, opioidsanalgesics and NSAIDS
CO4	Students will be able to enhance their knowledge on chemotherapeutic drugs
CO5	Students will be able to list out antibiotics, antifungal, antiviral and hormonal drugs

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Psychology – BS2608	
CO1	The students get a clear picture about the basic of psychology, scope, branches and history
CO2	Students will be able to identify psychological disorders like anxiety, panic, phobia
CO3	Students learn about stress and how to manage it
CO4	Students learn about the process of learning in psychological perspective
CO5	The students learn about therapeutic techniques and concept of counseling and relaxation

Introduction to computers – BS2609	
CO1	Students will familiar with their components of computer and operating system
CO2	Students will become familiar with different generation, types and applications of computer
CO3	Student will acquire knowledge on memory and mother board
CO4	Upon successful completion with this course students will gain knowledge on internet, computer and operating system
CO5	Students will understand about softwares and hardwares

Pathology Lab – BS2674	
CO1	Enable the student for understanding the concerned techniques for blood collection
CO2	Students will acquire knowledge about hematological techniques
CO3	Students will be enables to understand the indications and procedure involved in blood transfusion
CO4	Student will be able to gain basic knowledge of morphology of blood cells
CO5	Students will be enhanced with the basic knowledge of collection and examination of CSF

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Microbiology Lab – BS2675	
CO1	Develop basic skill in aseptic techniques and know the parts of the microscope and its principles
CO2	Understand the different methods of staining techniques
CO3	Understand nutritional requirements of bacteria and different cultivation techniques
CO4	To determine the concepts of various antigen antibody reactions
CO5	To determine the effect of antibiotics on microbial growth

Pharmacology Lab – BS2676	
CO1	Students will be able to understand the rules of drug administration
CO2	Students will be able to know the dosages of various drugs
CO3	Students will be able to understand fixed dose combinations
CO4	Students will be able to understand regarding the drug stations of various drugs
CO5	Students will be able to gain knowledge regarding different instruments and devices used for the administration of drugs

Patient care and Basic nursing – BS26S5	
CO1	It deals with communication and documentation
CO2	It deals with universal precautions and infection control in hospital setting
CO3	It deals with medication administration and transport of patients
CO4	It deals with bedside care and monitoring of patients
CO5	It deals with wound care and basic life support

Biostatistics and Research Methodology – BS26S6	
CO1	Deals with basic knowledge of biostatistics and its application in medicine
CO2	Deals with various types of data presentation and data summarization
CO3	Deals with data analysis and sampling technique
CO4	Deals with various study designs
CO5	Deals with application of various study designs in medical research

Constitution of India – BS26S7	
CO1	Students will be able to know the history of making of Indian constitution
CO2	Students will be able to know about the basic of democracy in constitution
CO3	Students will be able to know about their fundamental rights and duties
CO4	Students will be able to know the functions of different organizations under constitution
CO5	Students will be able to know the ways of amending the constitution

Basic concepts of Renal diseases – DT2604	
CO1	The students will be able to get adequate knowledge regarding fluid and electrolyte disorders
CO2	It deals with urinary tract infections
CO3	It deals with compositions risk factors and prevention of renal stone
CO4	It deals with hypertensions
CO5	It deals with nephrotic syndromes and acute glomerulonephritis

Acute and chronic kidney diseases and Nutrition – DT2605	
CO1	Enables the students for knowing acute kidney injury and its management
CO2	Students will be able to acquire knowledge of chronic kidney diseases, disease management and RRT options
CO3	Deals with nutritional requirements for healthy adult and renal failure patients
CO4	Deals with planning balanced diet for renal patients

CO5	Enables the students for knowing nutrition in dialysis patients
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Patient care and Basic Nursing Lab – BS2674	
CO1	Will be able to know regarding ECG monitoring of patients
CO2	Will be able to know the insertion of intravenous catheters and infusion of medications
CO3	Will be able to know regarding oxygen therapy, suctioning and care of artificial air ways
CO4	It deals with vital signs of patients
CO5	Will be able to deal with first aid and basic life support

Basic concepts of Renal diseases Lab – DT2674	
CO1	It deals with basic concepts of fluid and electrolyte balance
CO2	Deals with basic knowledge regarding priming of dialysis apparatus
CO3	Deals with knowledge regarding demonstration of dialyzer reuse
CO4	Deals with different nephrotic syndromes
CO5	Deals with treatment of renal stones

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Acute and chronic kidney diseases and Nutrition Lab – DT2675	
CO1	Enable the students for knowing dialysis in ICU setting
CO2	Enhances the basic knowledge of hemodialysis
CO3	Helps the student for understanding the effects of renal failure on nutrient metabolism
CO4	Enables the students for knowing sources of protein, fats and carbohydrates
CO5	Students will be able to understand the catheters, dialyzers, dialysates and solutions used in hemodialysis