

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

CT26 BSc CARDIAC CARE TECHNOLOGY



Student Performance and Learning Outcomes

CT26 BSc CARDIAC CARE TECHNOLOGY

Programme Outcome – PO	
PO-A	Students are familiar with basic subjects of cardiac care technology.
PO-B	Knowledge on the interdisciplinary 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 cardiac care technology 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 cardiac 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 are introduced in to advanced cardiac technology
PSO-2	involving both invasive and noninvasive technologies
PSO-3	To familiarise students about various disorders in cardiology and their effective diagnostic technologies
PSO-4	To acquire good knowledge about common cardiac drugs their effects ,complications and action in human sphere
PSO-5	To get better comprehension about various monitoring and specialised care in advanced intensive and post operative care.
PSO-6	To trace out various procedures involved in cardiac critical care and the life sustaining methods

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.	BS26S8	BASICS OF MEDICAL DISORDER
13.	CT2602	BASIC CARDIAC EVALUATION THERAPY
14.	BS2674	PATIENT CARE AND BASIC NURSING LAB
15.	BS2673	BASICS OF MEDICAL DISORDER LAB
16.	CT2672	BASIC CARDIAC EVALUATION THERAPY 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 adrenalgic 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 aquire 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
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Basics of Medical Disorder – BS26S8	
CO1	Upon successful completion of this course, students will be able to study various medical conditions and disorders
CO2	Students will understand various clinical symptoms, signs of various general medical disorders
CO3	Students will be able to diagnose disease condition by analyzing clinical manifestation
CO4	Students will be able to differentiate various medical disorders into corresponding systems of human body involved
CO5	Students will be able to study various treatment plans and drugs for all these medical disorders

Basic Cardiac Evaluation Therapy – CT2602	
CO1	Know various heart diseases and related disorders
CO2	Know various cardiovascular investigations non invasive
CO3	Know various invasive cardiovascular investigation
CO4	Know various cardiovascular pharmacological therapies
CO5	Know various cardiovascular interventional therapies

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

Basics of Medical Disorder Lab – BS2673	
CO1	To analyze normal X-ray and determine the variations in various disease conditions
CO2	To evaluate blood investigation reports
CO3	To understand various drug therapies in microbial infection cases
CO4	To analyze history physical examination and blood reports to reach a proper diagnosis
CO5	To understand various instruments and devices associated with diagnostic criteria to check the vital signs

Basic Cardiac Evaluation Therapy Lab– CT2672	
CO1	Understand the process of conduction system of heart
CO2	Learn the ECG waves and heart rate calculation techniques and related disorder
CO3	Acquire knowledge in techniques of echocardiogram
CO4	Understand the procedure of cardiac catheterization
CO5	Learn the cardiovascular pharmacological therapies