

PROGRAM OUTCOME (POs)	
Course Code	B.Sc. MEDICAL DIALYSIS TECHNOLOGY
PO1	Technical Proficiency: Demonstrate how to safely and successfully operate, troubleshoot, and maintain dialysis machines and related equipment. Carry out all hemodialysis and peritoneal dialysis operations that are required, including patient preparation, supervision, and post-treatment care.
PO2	Patient Safety and Care: Assist patients receiving dialysis with empathy and efficiency. This includes evaluating their illnesses, identifying and managing any complications, and making sure they are comfortable and safe. To promote general health and treatment efficacy, inform patients and their families about dialysis procedures, dietary limitations, and lifestyle changes.
PO3	Clinical Knowledge: Recognize and put into practice the fundamentals of renal physiology, pathophysiology, and the effects of chronic renal disease on general health. To make knowledgeable judgments about patient care and modifications to dialysis treatment, interpret clinical data and laboratory results.
PO4	Infection Control and Safety: Follow infection control procedures to stop the spread of illnesses in the dialysis environment. Put safety precautions in place to guarantee a sterile environment and safeguard personnel and patients.
PO5	Ethical and Professional Conduct: Be respectful of patient rights and confidentiality when interacting with patients, families, and other members of the healthcare team. In clinical settings, exhibit moral decision-making and problem-solving abilities.
PO6	Communication Skills: Clearly explain treatment plans and processes to patients, families, and medical staff through effective communication. Accurately and thoroughly record all patient care activities in medical records.
PO 7	Critical Thinking and Problem-Solving: Apply critical thinking techniques to evaluate and handle difficult clinical situations and unforeseen problems while receiving dialysis. To enhance the effectiveness of dialysis operations and improve patient outcomes, modify and implement problem-solving strategies.
PO8	Continual Learning and Professional Development: Maintaining up to date with the latest developments in dialysis technology and optimal practices requires continuous learning and professional growth. Engage in professional organizations that are pertinent to your subject and help it grow.

Course Outcomes (COs)	
Course Code	B.Sc. MEDICAL DIALYSIS TECHNOLOGY
SEMESTER I	
BMDT 101 L	Human Anatomy Part I
CO1	Define basic technical terminology and language associated with medical anatomy
CO2	Identify and describe the gross anatomy of various tissues and organs in the human body along with Skeletal and Muscular Systems
CO3	Understand and demonstrate the anatomy of Respiratory system, Circulatory system, Digestive system and Excretory system with it's clinical application
BMDT 102 L	Human Physiology Part I
CO1	Describe basic physiological principles involved in normal functioning of the human body and their applications in comprehending the pathophysiology of various diseases.
CO2	To understand the basic mechanism, operation and regulation of different organ systems such as Cardiovascular system, Digestive system, Respiratory system and Muscle-Nerve physiology.
CO3	Ability to identify techniques to evaluate the functioning of organ systems and interpret the results as normal or abnormal.
BMDT 103 L	General Biochemistry & Nutrition
CO1	Understand the fundamental principles of biochemistry, including the chemistry and functions of biomolecules such as carbohydrates, proteins, lipids and nucleic acids.
CO2	Identify the biochemical basis of various diseases and their clinical applications.