



**Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore**  
**Shri Vaishnav Institute of Paramedical Sciences**

**SCHEME OF EXAMINATION:**  
**DIPLOMA IN DIALYSIS TECHNICIAN (DDT)**  
**2024-25 Batch First Year D.D.T. Examination**

There shall be one paper setter external or internal for theory examination and two examiners, one internal (Chairman) and one external for practical examinations for subjects **Human Anatomy & Physiology, Renal Diseases, Background of Dialysis and Haemodialysis.**

Theory papers will of 100 max. marks and 3Hrs. time duration.

Pattern of Examination (Theory) if Maximum Marks are 100 will be as under-

No. & Type of Question	Marks for each question	Total Max. Marks
10 Very Short Answer Questions (Answer to be given in 50-60 words)	02	20
5 Short Answer Questions (Answer to be given in 250-300 words)	10	50
2 Essay Type Questions (Answer to be given in 450-500 words)	15	30
		100

**INSTRUCTION FOR THE PAPER SETTER**

**Section-A:** This will consist of 10 very short answer type questions with answers to each question upto five lines (Fifty to sixty words) in length. All questions will be compulsory to answer. Each question will carry two marks. Total weight age of the section shall be 20 marks.

**Section-B:** This will consist of short answer questions with answers to each question upto 2 pages (250-300 words) in length. Eight questions will be set by the examiner and five must be answered by the candidate. Each question will carry 10 marks. Total weight age of the section shall be 50 marks.

**Section-C:** This will consist of essay type questions with answers to each question upto 5 pages (approx 500 words) in length. Four questions will be set by the examiner and two must be answered by the candidate. Each question will carry 15 marks. Total weight age of the section shall be 30 marks.

**INSTRUCTIONS FOR THE CANDIDATES: Answer all questions only in required words.**

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**Scheme Of Examination: DDT**  
**Syllabus DDT I Year Session 2024-2025**

S.NO.	COURSE CODE	COURSE NAME	EXAMINATION SCHEME						TOTAL MARKS
			THEORY			PRACTICAL		VIVA	
			End University Exam	Mid Year Exam	Teachers Assessment	End University Exam	Mid Year Exam	End University Exam	
1	DDT101	Human Anatomy & Physiology-I	100	60	40	100	-	-	300

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; \*Teacher Assessment shall be based on the following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives (CEOs): The students will**

**CEO 1:** Rationalize the basic knowledge of human anatomy.

**CEO 2:** Develop understanding about human system histology.

**CEO 3:** Gain knowledge about functioning systems in the body.

**CEO 4:** Application of knowledge of anatomy to learn evaluation and application.

**Course Outcomes (COs) upon successful completion of this course the student will:**

**COs 1:** Understand the structure and function of a variety of cells contained in the human body.

**COs 2:** Understand the structure and function of bones. Know the major divisions of the human skeleton

**COs 3:** Relate the importance of hormones to the functioning of the human body. Describe the endocrine glands and the hormones they produce

**COs 4:** List the organs of the digestive tract by anatomical location.

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### **Unit-1:**

#### **Cell:**

1. Structure of Human Cell: Protoplasm and Nucleus.
2. Functions of Human Cells.
3. Cellular Transportation.

### **Unit-2.**

#### **Circulatory System :**

1. Structure and Functions of Heart.
2. Circulations: Systemic, Pulmonary and Different Regional Circulations.
3. Heart Sounds.
4. Cardiac Output, Cardiac Index.
5. Blood Pressure: Determination of BP. Different methods for BP measurement.
6. Interpretation of Normal ECG.

### **Unit-3: - Respiratory System:**

1. Structure and Functions of Lungs.
2. Mechanism of Breathing.
3. Buffer system for maintenance of pH of the body.
4. Lung volumes and Capacities.
5. O<sub>2</sub> Transportation.
6. CO<sub>2</sub> Transportation.

### **Unit-4: Digestive system:**

1. Introduction to Digestion
2. Structure and Function of Digestive system.
3. Different digestive juices and their composition.
4. Digestion of Carbohydrate.
5. Digestion of Protein.
6. Digestion of Fats.

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#### **Unit-5: Renal system:**

1. Structure and Functions of Kidney.
2. Structure and Functions of Nephron.
3. Juxtaglomerular apparatus.
4. Glomerular Filtration Rate.
5. Formation of Urine.
6. Composition of urine and its abnormal constituents.

#### **Unit-6: Blood:**

1. Formation of Blood Cells. Functions of Blood.
2. Structure of Haemoglobin. Functions of Haemoglobin.
3. Anemia, Polycythemia, Thrombocytopenia,
4. Leukemia.

#### **Unit-7: Basic Anatomy**

1. Basic Concepts
2. Muscular system
3. Joints
4. Musculoskeletal system.
5. Types of Bones

#### **Human anatomy & Physiology Practical's:**

1. Hb estimation by different manual methods.
2. Blood smear preparation.
3. Phlebotomy
4. Blood grouping.
5. Muscles identification according to their anatomy.
6. Identification of Different bones
7. Demonstration and Identification of Different Parts of Circulatory system.
8. Demonstration and Identification of Different Parts of Urinary system.

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#### **PRACTICAL EXAMINATION**

Students will be assessed by viva-based examination upon learning in theory, demonstration of bones, and joints, muscles.

#### **RECOMMENDED READING**

1. Chaurasia, B D Human Anatomy: Regional and CBS, New Delhi Latest 3V
2. Chaurasia, B D Human Osteology CBS, New Delhi Latest
3. Singh, Inderbir Textbook of Anatomy: With Color Atlas Jaypee, New Delhi Latest 3V
4. Singh, Inderbir Textbook of Neuroanatomy Jaypee, New Delhi Latest
5. Singh, Inderbir Textbook of Human Histology Jaypee, New Delhi Latest
6. Singh, Inderbir Textbook of Human Osteology Jaypee, New Delhi Latest
7. Garg, Krishna Textbook Histology CBS, New Delhi Latest
8. Singh, Inderbir Multiple Choice Questions in Anatomy Jaypee, New Delhi Latest
9. Datta, A.K. Essentials of Human Anatomy: Neuroanatomy Current Book, Calcutta, Latest
10. Datta, A.K. Essentials of Human Anatomy: Thorax and Abdomen Current Book, Calcutta, Latest
11. Williams, Peter L Gray's Anatomy: Anatomical Basis of Churchill Livingstone, New York, Latest

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			THEORY			PRACTICAL		VIVA	
			End University Exam	Mid Year Exam	Teachers Assessment	End University Exam	Mid Year Exam	End Universi ty Exam	
1	DDT102	Renal Diseases- I	100	60	40	100	-	-	300

**Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical.**

\*Teacher Assessment shall be based on the following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives (CEOs): The students will:**

**CEO1:** Conferring basic knowledge about renal diseases.

**CEO2:** Understanding of how diseases develop.

**CEO3:** Comprehensive knowledge about treatment of diseases.

**Course Outcomes (COs): Students should be able to:**

**COs 1:** An understanding of pathophysiology of Diseases

**COs 2:** Understanding of the treatment processes in the living system.

**COs 3:** Understanding the mechanism and the importance of dialysis in renal diseases.

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#### **Unit-1: Acute renal Failure I:**

1. Causes, Treatments and Dialysis Management
2. Symptoms, Diagnosis and Pre & Post Dialysis Management

#### **Unit-2: Vitamins and co-enzymes:**

1. Vitamin D synthesis, metabolism and Vitamin D deficiency in Nephrotic syndrome.
2. Functions of water-soluble vitamins
3. Fat soluble Vitamins A, D, E and K.

#### **Unit-3: Chronic Renal Failure I:**

1. Causes, Treatments and Dialysis Management
2. Symptoms, Diagnosis and Pre & Post Dialysis Management

#### **Unit 4: Urinary Tract Infections I:**

1. Pathogens.
2. Pathophysiology
3. Symptoms, Diagnosis and treatment.

#### **Unit 5: Diabetes I:**

1. Types of Diabetes.
2. Causes of Diabetes.
3. Insulin action.

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#### **Unit 6: Diabetes II:**

1. Diagnosis of Type 1 & Type 2 diabetes.
2. Effects of type 2 diabetes on human kidneys.
3. Long term use of insulin on human kidneys.

#### **Unit 7: Glomerulonephritis**

1. NSAID's Long Term Effects on Kidney
2. Some test like BUN, creatinine, and glomerular filtration rate (GFR).

#### **Biochemistry Practical's:**

1. Demonstration of Pathophysiology of Renal Tissues
2. Sign and Symptoms analysis of Diabetes.
3. Indication and Contraindication analysis of AKD
4. Sign and Symptoms analysis of AKD
5. Sign and Symptoms analysis of CKD
6. Indication and Contraindication analysis of AKD in Dialysis
7. Indication and Contraindication analysis of CKD in Dialysis

#### **PRACTICAL EXAMINATION**

Students will be assessed by viva based upon learning in theory.

#### **RECOMMENDED READING:**

1. Textbook of renal disease by Maheshwari Kata a\*, Harkesh Arora b, Rajeshwari Ramachandran c, Varun Victor d, Nihar Jena e, Abid Rizvi f, Prashanth Reddy Yella g,
2. Atul Bali h, Deepak Chandramohan i and Roopa Naik j
3. B.C. Bhagavan (2017) Textbook of Renal Dialysis, Clement Publications.
4. Pharmacology in Rehabilitations- Ciccone

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**Scheme Of Examination: DDT**  
**Syllabus DDT I Year Session 2024-2025**

S.NO.	COURSE CODE	COURSE NAME	EXAMINATION SCHEME						TOTAL MARKS
			THEORY			PRACTICAL		VIVA	
			End University Exam	Mid Year Exam	Teachers Assessment	End University Exam	Mid Year Exam	End University Exam	
1	DDT103	Background of Dialysis - I	100	60	40	100	-	-	300

**Legends:** **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical.

\*Teacher Assessment shall be based on the following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives (CEOs): The students will:**

**CEO1:** To explain the history of Dialysis

**CEO2:** To provide basic understanding of various stages of evolution of Dialysis.

**Course Outcomes (COs): Students should be able to:**

**COs 1:** Students will be able to understand Dialysis process.

**COs 2:** Students will be able to understand various types of dialysis processes.

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### **Unit-1: History of Dialysis I**

1. The early days of Dialysis.
2. The first successful dialysis
3. The Rotating drum Kidney
4. Dialysis and Ultrafiltration.

### **Unit-2: History of Dialysis II**

1. Recent developments in dialysis.
2. Historical basis of Haemodialysis.
3. The first chronic Haemodialysis.

### **Unit-3: Types of Dialysis**

1. What is Dialysis.
2. Who needs Dialysis?
3. What are the types of Dialysis?

### **Unit-4:**

1. Roll of hormones like Erythropoietin, Renin enzyme.
2. Complication and management during dialysis.
3. Dialysis in HIV/ HBsAg/ HCV positive patients.
4. Solute transport mechanism in dialysis.
5. Dialyzer

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### **Unit-5:**

#### **Precautions of Dialysis**

1. Precautions before and after dialysis.
2. Sterile techniques in dialysis.
3. Emergencies in dialysis.

### **Unit-6: Vascular access of Dialysis I**

1. Pre dialysis assessment for all types of vascular access.
2. Exit site care, monitoring of catheters.
3. Vascular access in Neonates, infants, children's.

### **Unit-7: Vascular access of Dialysis II**

1. Arteriovenous Fistula.
2. Arteriovenous Graft
3. Venous catheter

### **Unit-8: Anticoagulant:**

1. Principle and problems.
2. Uses of Anticoagulant
3. Antiplatelet drugs
4. Thrombolytic agents

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### **Background of Dialysis - I Practical's:**

1. Performing peritoneal dialysis and personal care.
2. Packing includes sterilization.
3. Dialysis Reuse.
4. Demonstration of Fistula.
5. Demonstration of Graft
6. Use of anticoagulants.

**Practical's will be modified as per the feasibility.**

### **RECOMMENDED READING:**

1. Textbook of renal disease by Maheshwari Kata a\*, Harkesh Arora b, Rajeshwari Ramachandran c, Varun Victor d, Nihar Jena e, Abid Rizvi f, Prashanth Reddy Yella g,
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			End University Exam	Mid Year Exam	Teachers Assessment	End University Exam	Mid Year Exam	End University Exam	
1	DDT104	Haemodialysis-I	100	60	40	100	-	-	300

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical.

\***Teacher Assessment** shall be based on the following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

**Course Educational Objectives (CEOs): The students will:**

**CEO1.** Acquire the ability to identify and find appropriate solutions to medical problems.

**CEO2.** Interpret morphological changes of the diseases in correlation to clinical manifestations and haemodialysis techniques of the Renal diseases.

**Course Outcomes (COs): Students should be able to:**

**CO1:** develop competency in techniques of Haemodialysis.

**CO2:** acquire knowledge and understand the background of hamodialysis.

**CO3:** understand the detailed aspects of haemodialysis techniques.

**CO4:** acquire knowledge and understand therapeutic use of Haemodialysis.

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### **Unit-1:**

#### **Introduction to Haemodialysis:**

1. History and discovery of Haemodialysis. Modern concepts of Haemodialysis.
2. Physiological principle and urea kinetic Modeling.

### **Unit-2:**

#### **The process of Haemodialysis:**

1. Process of Haemodialysis, priming of the dialyzer, alarms and settings of a dialyzer, completion of Haemodialysis.
2. Cleaning of the tubing and dialyzer and the dialysis machine

### **Unit-3:**

#### **Basic of Haemodialysis:**

1. Compatibility test for haemodialysis
2. Indication and Contraindication of Haemodialysis.
3. Laboratory investigation haemodialysis.

### **Unit-4:**

#### **Complications of Haemodialysis:**

1. Monitoring, prevention for acute complications.
2. Listing, prevention strategies, monitoring for chronic complications.
3. Technical complications in Haemodialysis.

### **Unit-5:**

#### **Techniques in Haemodialysis –**

1. Techniques of patient preparation.
2. Initiation of Hemodialysis.
3. Haemodialysis Machine: Working Principles and maintenance.

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#### **Unit-6:**

##### **Acute Haemodialysis prescription.:**

1. Components of haemodialysis prescription.
2. Management during recovery of kidney function.
3. Modern guidelines.

#### **Unit-7:**

##### **High efficiency Dialysis:**

1. Definition of high efficiency dialysis.
2. Differences between High efficiency dialysis and Haemodialysis.
3. Uses, Indication, complications, precautions in high efficiency dialysis

#### **Unit-8:**

##### **Chronic Haemodialysis prescription.:**

1. Components of haemodialysis prescription.
2. Management during recovery of kidney function.
3. Modern guidelines

#### **Unit-9:**

##### **Patient Care:**

1. Patient care post Haemodialysis dialysis..
2. Case history preparation of patient.
3. Maintenance of vascular access.

#### **Unit-10:**

##### **Pathological Investigation.:**

1. Kidney Function Test.
2. Glucose estimation: Blood and Urine.
3. Estimation of GFR.

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#### **PRACTICAL'S**

1. Estimation of Blood Glucose.
2. Estimation of Blood Pressure.
3. Haemodialysis: Patient Preparation
4. Techniques of patient preparation.
5. Initiation of Hemodialysis.
6. Haemodialysis Machine: Working Principles and maintenance.

#### **PRACTICAL EXAMINATION**

Students will be assessed by viva based upon learning in theory and demonstration of various components of the equipment.

#### **RECOMMENDED READING**

- 1 Dialysis Therapy (New Ed.) (1 copy) Nissenson Fine Jay Pee Brothers Medical Publishers (P) Ltd.
- 2 Review of Haemodialysis for Nurse and Dialysis Personnel (1 copy) C.F. Gutch –
- 3 Principle and Practices of Haemodialysis (1 copy) William C.M. Meulean –
- 4 Principles of Dialysis (1 copy) Trunne Dipittod –
- 5 Haemodialysis (1 copy) Juanne Dippitt

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