



**Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore**  
**Shri Vaishnav Institute of Paramedical Sciences**  
**DDT (Diploma in Dialysis Technology)**  
**Syllabus DDT III SEMESTER**  
**Session 2023-2024**

Subject Code	Category	Subject Name	Teaching and Evaluation Scheme								
			Theory			Practical		L	T	P	CREDITS
			End Sem University Exam (60%)	Two Term Exam (20%)	Teacher Assessment (20%)	End Sem University Exam (60%)	Teacher Assessment (40%)				
DDT301	CC	Anatomy & Physiology III	60	20	20	0	0	3	0	0	3

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

\***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: rationalize the fundamental knowledge of the human body system.
- CEO2: understanding detailed functioning about human system histology.
- CEO3: gain knowledge about clinical conditions of different body systems.

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

- CO1: understand the human system with emphasis on normal and pathophysiological conditions.
- CO2: acquainted with the different body systems and their prime functions.
- CO3: Identification of the different clinical conditions with their signs and symptoms.
- CO4: Learn some important clinical identification processes of diseases.

**Unit-I**

**Skeletal system, bones, joints, and muscles.:**

- Classification and Functions of Bones. Gross structure of an adult long bone. Development and classification of bone.
- Classification of bone joints: Fibrous, Cartilaginous and Synovial joints
- Muscles: Types and functions. E-C coupling. Changes during muscle contraction.

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### Unit-II

#### Nervous system :

- Parts of nervous system. Structure of neurons. Action potential generation.
- Summary of cranial nerves.
- Autonomic nervous system: structure and functions,
- Spinal nerves.
- Special senses.

### Unit-III

#### Urinary system:

- Glomerular filtration. Determination of GFR.
- Urine formation with reference to Counter current mechanism.
- Nervous control in micturition process.
- Urinary tract infection, Chronic Kidney Disease, Acute Kidney Disease

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#### Unit-IV

##### The Cardiovascular System:

- Circulations: Systemic & Pulmonary. Regional circulations: Coronary and Carotid circulations
- Blood pressure: Types of blood pressure; determination of blood pressure; Hypertension and Hypotension.
- Different cardiovascular diseases.
- Significances of ECG in different cardiac disorders.

#### Unit-V

##### Endocrine & Reproductive system:

- Secretion of Insulin. Diabetes Mellitus: Types and causes. Functions of Adrenal cortical hormones and their diseases.
- Parathyroid gland and its functions.
- Male reproduction: Spermatogenesis
- Female reproduction: Oogenesis, Menstruation, Ovulation, Implantation and Pregnancy.

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\***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: identify various bones present in the human body.

CEO2: develop understanding about vitals of human cardiovascular system and factors affecting them.

CEO3: understand, analyze and interpret various histological tests for blood.

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

CO1: understand and identify the human bones with emphasis on general anatomy and general histology.

CO2: distinguish various human bones based on their respective

CO3: memorize and perform various clinical tests.

CO4: analyze and interpret the results of various blood tests.

**List of Practical's**

- Bone identification according to their anatomy.
- Determination of different superficial and deep reflexes.
- Determination of Pulse. Different factors affecting pulse.
- Determination of Blood pressure. Different factors affecting Blood pressure.
- Differential count of WBCs.

**Reference book:**

1. G.K. Pal (2021). *Textbook of Medical Physiology, 4th edition*. Elsevier.
2. Gyton A.C and Hall J.E. (2020). *Textbook of medical physiology*, Prism Books(Pvt) ltd. Bangalore.
3. C.C. Chatterjee . *Human Physiology* Vol.1 and Vol.2, CBS Publishers & Distributers.
4. Graaff et al, (2013). *Schaum's Outline of Human Anatomy and Physiology*. McGraw Hill Education. New York City.
5. C. Shier David et al, (2012), *Hole's Human Anatomy and Physiology*, McGraw Hill Education. New York.
6. Seema Tripathi, *Human Anatomical and Physiological Systems*, Viva Books Pvt. Ltd.

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DDT302	CC	Renal Diseases-III	60	20	20	0	0	3	0	0	3

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

\***Teacher Assessment** shall be based 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.

**CO1:** 1. An understanding of pathophysiology of Diseases

**CO2:** Understanding of the treatment processes in the living system.

**CO3:** Understanding the mechanism and the importance of dialysis in renal diseases.

#### Unit I:

- Congenital abnormalities of urinary system
- Glomerular diseases, causes, types and pathology
- Tubule interstitial
- Renal vascular disorder

#### Unit II:

- End stage renal diseases, cause and pathology
- Pathology of peritoneum, peritonitis
- Bacterial, tubular, and sclerosing peritonitis
- Pyelonephritis and tuberculous Pyelonephritis

#### Unit III:

- Drugs use in renal disease
- Pharmacokinetics
- Drug interactions
- Routes of drug administration
- Adverse drug reactions

#### Unit IV:

- IV Fluid Therapy with special emphasis in renal diseases
- Diuretics
- Antihypertensive
- Vitamin D and its analogue
- Anticoagulants and its alternatives

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### Unit V:

- Nephrotic syndroms
- Tumors of kidney
- Pregnancy associated renal diseases
- Renal vascular disorders
- Obstructive Uropathies

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DDT302(P)	CC	Renal Diseases-III (Practical)	00	00	00	30	20	0	0	2	1

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

**CEO1:** understand, analyze and interpret tests.

**Course Outcomes (COs): Student should be able to -**

**CO1:** memorize and perform various tests.

**CO2:** analyze and interpret the results of various tests.

**List of Practical's:**

1. Sign and Symptoms analysis of Peritonitis
2. Sign and Symptoms analysis of Nephrotic syndrome
3. Indication and Contraindication analysis of Pyelonephritis in Dialysis
4. Indication and Contraindication analysis of End stage renal diseases in Dialysis

**Reference book:**

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, Atul Bali h, Deepak Chandramohan i and Roopa Naik j
2. B.C. Bhagavan (2017) Text Book of Renal Dialysis, Clement Publications.
3. Pharmacology in Rehabilitations- Ciccone

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DDT303	CC	Applied Dialysis Therapy I	60	20	20	0	0	3	0	0	3

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### Course Objectives

1. To explain the Applied Dialysis
2. To provide basic understanding of various stages of Dialysis.

### Course Outcomes

1. Students will be able to understand Dialysis process.
2. Students will be able to understand various types of Applied Dialysis processes.

### Unit-I

- Need for planning diet
- Concept of a balanced diet
- Food groups and balance diet
- Stages in planning balance diet
- Concepts of a balanced diet for dialysis patients

### Unit-II

- Macronutrients, Micronutrients & Vitamins
- Types, sources, requirements, and deficiency of Proteins
- Types, sources, requirements, and deficiency of Carbohydrates
- Types, sources, requirements, and deficiency of fats
- Types, sources, requirements, and deficiency of drinking water

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DDT303	CC	Applied Dialysis Therapy I	60	20	20	0	0	3	0	0	3

### Unit III

- Food patterns and its relation to health
- Factors influencing food habit
- Food selection storage and preservation
- Prevention of food adulteration

### Unit-IV

- Recommended dietary intake for dialysis patients
- Influence age, sex, occupation and physiological state in planning diets
- Superstitions culture, religion, income, composition of family in dietary pattern

### Unit-V

- Acid base balance
- Renal function tests
- Determination of GFR
- Renal circulation peculiarities
- Hormones for kidney

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**List of Practical's**

1. Diet plan or renal diseases
2. Nutritional assessment of different foods

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

**Reference book:**

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, Atul Bali h, Deepak Chandramohan i and Roopa Naik j
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3. Pharmacology in Rehabilitations- Ciccone
4. Textbook of Renal dialysis and renal diseases latest edition

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DDT304	CC	Haemodialysis-III	60	20	20	0	0	3	0	0	3

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### 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): Student 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.

### Unit-I

#### Basic hemodialysis machine

- Indications of dialysis
- Types of dialysis
- Hemodialysis apparatus
- Priming of dialysis apparatus

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DDT304	CC	Haemodialysis-III	60	20	20	0	0	4	0	0	4

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### Unit II

- Dialyzer reuse
- Common complications of hemodialysis
- Monitoring of patients during dialysis
- Type of vascular access for hemodialysis

### Unit-III

#### (Dialysis membrane)

- Structure
- Characteristics (molecular weight cut off, ultrafiltration co-efficient, mass transfer co-efficient, low and high fluxes and clearance)
- Biocompatibility
- Newer membrane
- High performance membrane

### Unit-IV

#### Latest hemodialysis machine

- Conventional and portable machines
- Wearable artificial kidney
- Bioartificial kidney
- Home dialysis machine
- Patient training

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### Unit-V

#### Adequacy of dialysis:

- Hemodialysis
- Peritoneal dialysis
- Peritoneal equilibration (PET)
- Biochemical investigation required for renal dialysis

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

**CEO1:** understand, analyze and interpret Haemodialysis.

**Course Outcomes (COs): Student should be able to -**

**CO1:** memorize and perform Haemodialysis.

**CO2:** analyze and interpret the results of haemodialysis.

**List of Practical's:**

- Hemodialysis Machine.
- Patient Monitoring During hemodialysis
- Haemodialysis: Patient management

### Reference book:

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) Juaane Dippitt

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Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore

### Registrar

Shri Vaishnav Vidyapeeth  
Vishwavidyalaya, Indore