



Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore
Shri Vaishnav Institute of Paramedical Sciences
DDT (Diploma in Dialysis Technology)
Syllabus DDT IV 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%)				
DDT401	CC	Anatomy & Physiology IV	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

Endocrine System

- Introduction to Endocrine glands
- Hormone classification and mechanism of action
- Pituitary gland – structure, hormones, disorders
- Thyroid & Parathyroid – functions, regulation, hypo/hyper disorders
- Adrenal gland – cortex & medulla hormones, clinical significance

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Unit-II

Nervous System

- Central nervous system (CNS): Brain (cerebrum, cerebellum, brainstem)
- Peripheral nervous system (PNS): Spinal nerves, cranial nerves
- Autonomic Nervous System (ANS): Sympathetic & Parasympathetic
- Neuron structure & impulse conduction
- Reflex arc & clinical reflexes

Unit-III

Musculoskeletal System

- Classification of bones & joints
- Structure of muscle fiber
- Neuromuscular junction
- Physiology of muscle contraction
- Disorders: myasthenia gravis, muscle fatigue, osteoporosis (brief)

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Unit-IV

Reproductive System

Male Reproductive System

- Structure & functions
- Spermatogenesis
- Hormonal regulation

Female Reproductive System

- Structure & functions
- Ovarian & menstrual cycle
- Fertilization, implantation (brief clinical correlation)

Unit-V

Special Senses

- Anatomy & physiology of Eye
- Vision pathway
- Anatomy & physiology of Ear
- Hearing mechanism
- Taste & smell pathways

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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 Properties.

CO3: memorize and perform various clinical tests.

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

List of Practical's

- Identification of Endocrine Glands (models/slides)
- Brain & Spinal Cord anatomy demonstration
- Cranial nerve identification exercises
- Reflex testing (knee jerk, plantar reflex, etc.)
- Demonstration of muscle fatigue experiment
- Identification of male & female reproductive organs (models)
- Demonstration of visual acuity tests
- Hearing tests – tuning fork tests (Rinne/Weber)

Reference book:

1. G.K. Pal (2021). *Textbook of Medical Physiology, 4th edition*. Elsevier.
2. Gytton 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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DDT402	CC	Renal Diseases-IV	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: Introduction to Renal Physiology

1. Structure and function of the kidneys
2. Nephron anatomy & physiology
3. Fluid and electrolyte balance
4. Acid–base balance
5. Pathophysiology of kidney failure

Unit II: Renal Diseases

1. Acute kidney injury (AKI) – causes, types, stages
2. Chronic kidney disease (CKD) – causes, progression
3. Diabetic and hypertensive nephropathy
4. Glomerular and tubulointerstitial diseases
5. Indications for renal replacement therapy

Unit III: Dialysis Machine

1. Initial innovations and early dialysis machines
2. Development of dialyzers & membranes
3. Evolution of dialysis water treatment
4. Recent advancements in dialysis technologies

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Unit IV:

1. Diffusion, osmosis, ultrafiltration principles
2. Solute clearance and membrane permeability
3. Dialysate composition & adjustment
4. Types of dialysis – hemodialysis vs. peritoneal dialysis
Biocompatibility of dialysis materials

Unit V:

Essentials of Dialysis Unit Setup

- Dialysis room layout and zoning
- Infection control basics
- Water treatment systems overview
- Emergency preparedness
- Patient safety protocols

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***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: 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:

- Dialysate mixing and measurement
- Demonstration of diffusion using models
- Demonstration of old vs. modern dialyzers & equipment
- Renal function test interpretation (BUN, creatinine, electrolytes)

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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DDT403	CC	Applied Dialysis Therapy II	60	20	20	0	0	3	0	0	3

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

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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: Peritoneal Dialysis (PD)

- Introduction to PD
- CAPD and APD techniques
- Catheter placement & care
- Dialysate solutions and prescription
- Complications (peritonitis, catheter blockage)

Unit-II: Specialized Dialysis Therapies

- Hemodiafiltration (HDF)
- Slow low-efficiency dialysis (SLED)
- Continuous renal replacement therapy (CRRT)
- High-flux dialysis
- Pediatric dialysis considerations

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DDT403	CC	Applied Dialysis Therapy II	60	20	20	0	0	3	0	0	3

Unit III: Pharmacology in Dialysis

- Drug removal in dialysis
- Anemia management (EPO, iron)
- Bone-mineral disorders (phosphate binders, vitamin D)
- Antihypertensives in dialysis patients
- Antibiotic dosing adjustments

Unit-IV: Patient Care & Nutrition

- Dialysis patient assessment
- Fluid restriction counselling
- Nutritional requirements (protein, electrolytes)
- Psychosocial aspects
- Quality of life improvement

Unit-V: Dialysis Unit Administration & Ethics

- Documentation & record keeping
- Dialysis unit workflow
- Biomedical waste management
- Ethical and legal issues in dialysis care
- Patient consent & confidentiality

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DDT403(P)	CC	Applied Dialysis Therapy II (Practical)	00	00	00	30	20	0	0	2	1

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List of Practical's

1. Patient interview & counselling practice
2. Case-based drug dosing exercises
3. Demonstration of HDF machine modes
4. Demonstration of PD exchange
5. Exit-site care practice

➤ **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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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

- Components of dialysis machine
- Blood pump system
- Monitoring systems (UF control, BP monitor)
- Alarms and safety features
- Dialyzer types – hollow fiber, reprocessed, high-flux

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Unit II: Vascular Access for Hemodialysis

- Types of access: AV fistula, AV graft, catheter
- Access creation and maturation
- Access care and surveillance
- Complications (thrombosis, infection, stenosis)
- Assessment techniques

Unit-III: Hemodialysis Procedure

- Pre-dialysis assessment
- Dialyzer and line connection
- Anticoagulation (heparin protocols)
- Ultrafiltration and dry weight management
- Dialysis termination & post-dialysis care

Unit-IV: Complications of Hemodialysis

- Intra-dialytic hypotension
- Cramps, nausea, disequilibrium
- Dialyzer reactions
- Air embolism, hemolysis
- Management protocols and emergency response

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Unit-V: Water Treatment & Quality Control

- Water purification stages (RO, DI, carbon filters)
- AAMI standards
- Microbiological testing
- Chemical monitoring
- Troubleshooting water treatment systems

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***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: 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:

- Simulated emergency scenarios
- Monitoring & documentation charting
- Haemodialysis: Patient management
- Full hemodialysis cycle demonstration
- Cannulation practice
- Access monitoring using Doppler

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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