



Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Shri Vaishnav Institute of Paramedical Sciences

DDT (Diploma in Dialysis Technology)

Syllabus DDT II SEMESTER

Session 2024-2025

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%)				
DDT201	CC	Anatomy & Physiology II	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

Blood:

- Formation of Blood Cells. Functions of Blood.
- Structure of Haemoglobin. Functions of Haemoglobin.
- Anemia, Polycythemia, Thrombocytopenia, Leukemia.

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Unit-II

Circulatory System II:

- Cardiac Output, Cardiac Index.
- Blood Pressure: Determination of BP. Different methods for BP measurement.
- Interpretation of Normal ECG.

Unit-III

Respiratory System II:

- Lung volumes and Capacities.
- O₂ Transportation.
- CO₂ Transportation.

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Unit-IV

Digestive system II:

- Digestion of Carbohydrate.
- Digestion of Protein.
- Digestion of Fats.

Unit-V

Renal system II:

- Glomerular Filtration Rate.
- Formation of Urine.
- Composition of urine and its abnormal constituents.

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DDT201(P)	CC	Anatomy & Physiology II (Practical)	00	00	00	30	20	0	0	2	1

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: identify various bones present in the human body.

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

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 Practicals

- Hb estimation by different manual methods.
- Blood smear preparation.
- Phlebotomy
Blood grouping.

Reference book:

1. Basic Anatomy & Physiology by N. Murgesh 5th Edition
2. Difore Atlas of normal Histology Ed. 6 Lea & Febiger - 1989
3. CC Chaturgee latest edition
4. Human Anatomy -- Chaurasia Vol. I, II & III
5. Human Anatomy -- A.K. Dutta Vol. I, II & III
6. Cunningham's Manual of Practical Anatomy -- Vol. I, II & III

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DDT202	CC	Renal Diseases-II	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:

Acute renal Failure I:

- Symptoms, Diagnosis and Pre & Post Dialysis Management

Unit II:

Vitamins and co-enzymes:

- Vitamin D synthesis, metabolism and Vitamin D deficiency in Nephrotic syndrome.

Unit III:

Chronic Renal Failure I:

- Symptoms, Diagnosis and Pre & Post Dialysis Management

Unit IV:

Urinary Tract Infections I:

- Symptoms, Diagnosis and treatment.

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DDT202	CC	Renal Diseases-II	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.

Unit V:

Diabetes II:

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

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DDT202(P)	CC	Renal Diseases-II (Practical)	00	00	00	30	20	0	0	2	1

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: understand, analyze and interpret test for macronutrients, blood and Urine.

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 AKD
2. Sign and Symptoms analysis of CKD
3. Indication and Contraindication analysis of AKD in Dialysis
4. Indication and Contraindication analysis of CKD 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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DDT203	CC	Background of Dialysis-II	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 Objectives

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

Course Outcomes

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

Unit-I

History of Dialysis II

- Recent developments in dialysis.
- Historical basis of Haemodialysis.
- The first chronic Haemodialysis.

Unit-II

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

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DDT203	CC	Background of Dialysis-II	60	20	20	0	0	3	0	0	3

Unit III

Precautions of Dialysis

- Sterile techniques in dialysis.
- Emergencies in dialysis.

Unit-IV

Vascular access of Dialysis

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

Unit-V

Anticoagulant:

- Antiplatelet drugs
- Thrombolytic agents

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DDT203(P)	CC	Background of Dialysis-II (Practical)	00	00	00	30	20	0	0	2	1

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.

List of Practical's

1. Performing peritoneal dialysis and personal care.
2. Packing includes sterilization.
3. Dialysis Reuse.

➤ **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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DDT204	CC	Haemodialysis-II	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: 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

The process of Haemodialysis:

- Process of Haemodialysis, primijmg of the dialyser, alarms and settings of a dialyser, completion of Haemodialysis.
- Cleaning of the tubing and dialyser and the dialysis machine,

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DDT204	CC	Haemodialysis-II	60	20	20	0	0	4	0	0	4

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

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Unit II

Complications of Haemodialysis:

- Monitoring, prevention for acute complications.
- Listing, prevention strategies, monitoring for chronic complications.
- Technical complications in Haemodialysis.

Unit-III

High efficiency Dialysis:

- Definition of high efficiency dialysis.
- Differences between High efficiency dialysis and Haemodialysis.
- Uses, Indication, complications, precautions in **high efficiency dialysis**

Unit-IV

Patient Care:

- Patient care post Heamodialysis dialysis..
- Case history preparation of patient.
- Maintenance of vascular access.

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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.

Unit-V

Pathological Investigation.:

- Kidney Function Test.
- Glucose estimation: Blood and Urine.
- Estimation of GFR.

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DDT204(P)	CC	Haemodialysis-II (Practical)	00	00	00	30	20	0	0	2	1

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: 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:

- Estimation of Blood Glucose.
- Estimation of Blood Pressure.
- Haemodialysis: Patient Preparation

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) Juanne Dippitt

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