



# Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

## Shri Vaishnav Institute of Paramedical Sciences

DDT (Diploma in Dialysis Technology)

Syllabus DDT I 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%) |   |   |   |         |
| DDT101       | CC       | Anatomy & Physiology I | 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

#### Cell:

- Structure of Human Cell: Protoplasm and Nucleus.
- Functions of Human Cells.
- Cellular Transportation.

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### Unit-II

#### Circulatory System I:

- Structure and Functions of Heart.
- Circulations: Systemic, Pulmonary and Different Regional Circulations.
- Heart Sounds.

### Unit-III

#### Respiratory System I:

- Structure and Functions of Lungs.
- Mechanism of Breathing.
- Buffer system for maintenance of pH of the body.

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### Unit-IV

#### Digestive system I:

- Introduction to Digestion
- Structure and Function of Digestive system.
- Different digestive juices and their composition.

### Unit-V

#### Renal system I:

- Structure and Functions of Kidney.
- Structure and Functions of Nephron.
- Juxtaglomerular apparatus.

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|--|--|--|--------------------------------|--|--|--|-----------|--|--|--|--|--|
|  |  |  | Teaching and Evaluation Scheme |  |  |  |           |  |  |  |  |  |
|  |  |  | Theory                         |  |  |  | Practical |  |  |  |  |  |

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| DDT101(P)    | CC       | Anatomy & Physiology I (Practical) | 00                            | 00                  | 00                       | 30                            | 20                       | 0 | 0 | 2 | 1 |

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

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#### 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 Practical's

- Muscles identification according to their anatomy.
- Identification of Different bones.
- Demonstration and Identification of Different Parts of Circulatory system.
- Demonstration and Identification of Different Parts of Urinary system.

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| DDT102       | CC       | Renal Diseases-I | 60                             | 20                  | 20                       | 0                             | 0                        | 3 | 0 | 0 | 3       |

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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:**

- Causes, Treatments and Dialysis Management

**Unit II:**

**Vitamins and co-enzymes:**

- Functions of water soluble vitamins; Fat soluble Vitamins A, D, E and K.

**Unit III:**

**Chronic Renal Failure I:**

- Causes, Treatments and Dialysis Management

**Unit IV:**

**Urinary Tract Infections I:**

- Pathogens.
- Pathophysiology

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| DDT102       | CC       | Renal Diseases-I | 60                             | 20                  | 20                       | 0                             | 0                        | 3 | 0 | 0 | 3       |

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**Unit V:**

**Diabetes I:**

- Types of Diabetes.
- Causes of Diabetes.
- Insulin action.

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| DDT102(P)    | CC       | Renal Diseases-I (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. Demonstration of Pathophysiology of Renal Tissues
2. Sign and Symptoms analysis of Diabetes.
3. Indication and Contraindication analysis of AKD
4. Study of pH meter

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| DDT103       | CC       | Background of Dialysis-I | 60                             | 20                  | 20                       | 0                             | 0                        | 3 | 0 | 0 | 3       |

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### 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 I

- The early days of Dialysis.
- The first successful dialysis
- The Rotating drum Kidney
- Dialysis and Ultrafiltration.

### Unit-II

#### Types of Dialysis

- What is Dialysis.
- Who needs Dialysis?
- What are the types of Dialysis?

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**Unit III**

**Precautions of Dialysis**

- Precautions before and after dialysis.

**Unit-IV**

**Vascular access of Dialysis**

- Arteriovenous Fistula.
- Arteriovenous Graft
- Venous catheter

**Unit-V**

**Anticoagulant:**

- Principle and problems.

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**List of Practical's**

1. Demonstration of Fistula.
2. Demonstration of Graft
3. Use of anticoagulants.

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

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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

#### Introduction to Haemodialysis:

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

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### Unit II

#### Basic of Haemodialysis:

- Compatibility test for haemodialysis
- Indication and Contraindication of Haemodialysis.
- Laboratory investigation haemodialysis.

### Unit-III

#### Techniques in Haemodialysis –

- Techniques of patient preparation.
- Initiation of Hemodialysis.
- Haemodialysis Machine: Working Principles and maintenance.

### Unit-IV

#### Acute Haemodialysis prescription.:

- Components of haemodialysis prescription.
- Management during recovery of kidney function.
- Modern guidelines.

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### Unit-V

#### Chronic Haemodialysis prescription.:

- Components of haemodialysis prescription.
- Management during recovery of kidney function.
- Modern guidelines

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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%) |   |   |   |         |
| DDT104(P)    | CC       | Haemodialysis-I (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:**

- Techniques of patient preparation.
- Initiation of Hemodialysis.
- Haemodialysis Machine: Working Principles and maintenance.

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