



Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore
Shri Vaishnav Institute of Paramedical Sciences
DMLT (Diploma in Medical Laboratory Technology)
Syllabus DMLT II 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%)				
DMLT201	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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DMLT201(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 books

- 1 William Davis (P) understanding Human Anatomy and Physiology MC Graw Hill
2. Chaurasia -A Text book of Anatomy IS. Ranganathan - A text book of Human Anatomy
3. Fattana, Human anatomy (Description and applied) Saunders & C P Prism Publishers. Bangalore - 1991
- 4 ESTER . M. Gnshcimer, Physiology & Anatomy with Practical Considerations J P Lippin Cott

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Philadelphia

5 Guyton (Arthur) Text Book of Physiology Latest Ed. Prism publishers

6. Chatterjee(CC) Human Physiology Latest Ed. Vol-1, Medical Allied Agency

7 Choudhan (Su)ith K) Concise Medical Physiology Latest Ed New Central Book,

8 Ganong (William F) Review of Medical Physiology. Latest Ed Appleton

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DMLT202	CC	Biochemistry-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 body elements.

CEO2: Understanding their Structure, basic metabolism and utilisation in human body.

CO1: 1. An understanding of basic biochemistry of body elements

CO2: Understanding of their utilization processes in the living system.

CO3: Understanding the mechanism and the importance of different body elements.

Unit I:

Carbohydrates II:

- Carbohydrate Metabolism: Glycolysis, Krebs Cycle and ETC.

Unit II:

Proteins II:

- Protein Metabolism: Deamination and Transamination.

Unit III:

Lipids II:

- Lipid Metabolism: Beta- Oxidation and Cholesterol Biosynthesis.

Unit IV:

Nucleic Acid II:

- Pentose Phosphate Pathway and PRPP Pathway

Unit V:

Metabolic Disorders I:

- Diabetes Meletus and Glucose-Galactose Malabsobtion.

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DMLT202(P)	CC	Biochemistry-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. Blood glucose estimation
2. Qualitative analysis of Proteins in urine.
3. Quantitative analysis of Proteins in urine.

REFERENCE BOOKS Biochemistry

1 Varley - Clinical chemistry

2 TEITZ - Clinical chemistry

3 Kaplan - Clinical chemistry

4 Ramakrishna(S) Prasanna(KG), Rajra A Text cook of Medical Biochemistry Latest Ed Orient longman Bombay - 1980

5 Vasudevan (DM) Sreekumari(S) Text book of Biochemistry for Medical students, Latest Ed 6DAS(Debajyothi)

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			End Sem University Exam (60%)	Two Term Exam (20%)	Teacher Assessment (20%)	End Sem University Exam (60%)	Teacher Assessment (40%)				
DMLT204	CC	Microbiology & Serology-II	60	20	20	00	00	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 understand basic characteristics of micro-organisms
2. To provide basic understanding of various types of micro-organisms.

Course Outcomes

1. Students will be able to understand the growth process of micro-organisms.
2. Students will be able to understand various types of pathogens and their mode of actions.

Unit-I

Introduction to Microbial Sterilization Techniques & Culture Methods:

- Sterilization and Disinfection, Principles, and use of equipment of sterilization.
- Handling of waste, waste segregation and management.

Unit-II

Parasitology:

- Introduction & classification of medically important parasites.
- Malaria parasite, Leishmanial parasites, Tapeworms
- E.histolylica, Giardia Primary Amoebic meningoencephalitis.

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DMLT204	CC	Microbiology & Serology-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 III

Human pathogenic bacteria and lab diagnosis

- Definition of diseases: Epidemic, Endemic, Pandemic.
- Tuberculosis, Diphtheria, Meningitis. Pneumonia.
- Enteric fever, cholera, leprosy.
- Urinary tractinfections, STD.

Unit-IV

Human pathogenic Protozoa and lab diagnosis

- Morphology, lifecycle, pathogenicity, clinical features, lab diagnosis: Entamoeba histolytica, Entamoeba coli and Giardia lamblia.
- Morphology, lifecycle, pathogenicity, clinical features, lab diagnosis: Trichomonas vaginalis, Plasmodium vivax, and Plasmodium falciparum.

Unit-V

Virology

- Introduction to medical virology.
- General characteristics of viruses.
- Storage of samples for viral diagnosis.
- Hepatitis viruses, HIV and Rotavirus.

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DMLT204(P)	CC	Microbiology & Serology-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. Physical agents of control by moist heat and dry heat.
2. Identification of pathogenic organisms.
3. Mechanical agents of control UV radiation
4. Antibiotic susceptibility test.
5. Usage of sterilization equipments.
6. Hanging drop method for motility
7. Counting bacterial colonies by coulter colony counter.

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

REFERENCE BOOKS Microbiology

- 1 Anathanarayana & Panikar Medical Microbiology
- 2 Roberty Cruickshank - Medical Microbiology - The Practice of Medical Microbiology
- 3 Chatterjee - Parasitology - Interpretation to Clinical medicine.
- 4 Rippon - Medical Mycology
- 5 Emmons - Medical mycology
- 6 Basic laboratory methods in Parasitology, 1st Ed. J P Bros, New Delhi - 199
- 7 Base laboratory procedures in clinical bacteriology, EC, J P Brothers. New Delhi

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DMLT203	CC	Haematology & Blood Banking-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 Educational Objectives (CEOs): The students will-

CEO1: To understand basic ideas and techniques of Pathology.

CEO2: To understand the basic principles of pathological tests.

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

CO1: develop competency in techniques of Haematology.

CO2: acquire knowledge and understand the basic pathologies of biological fluids.

Unit-I

Introduction to Transfusion Medicine:

- History and discovery of Transfusion medicine. Modern concepts of Blood group systems.
- ABO and Rh Blood group systems and importance of determination of blood groups.

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DMLT203	CC	Haematology & Blood Banking-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

Basic of Transfusion Medicine:

- Compatibility test in blood transfusion: Principles, Blood typing, Crossmatching, Antibody screening and identification.
- Indication and Contraindication of Blood transfusion.
- Laboratory investigation of transfusion reaction and mismatched transfusion.

Unit-III

Advance techniques in Transfusion Medicine

- Techniques of Blood component preparation.
- Techniques of Direct Antiglobuline Test (DAT).
- Techniques of Albumine, Immunoglobulines and Clotting factor separation.

Unit-IV

Transfusion related diseases:

- Precautions during blood donation.
- Transfusion transmitted diseases.
- Blood Transfusion in the operating room.

Unit-V

Transfusion Therapy:

- Transfusion therapy for Haemoglobinopathies.
- Plasma transfusion therapy.
- Coagulation therapy in Haemophilia.

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DMLT203(P)	CC	Haematology & Blood Banking-II (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: understand, analyze and interpret Haematology.

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

CO1: memorize and perform haematology tests.

CO2: analyze and interpret the results of haematology.

List of Practical's:

- Demonstration of Blood banking equipments.
- Blood donation procedures.
- Crossmatching.
- Separation of blood cells.
- Various serological tests for blood screening.

REFERENCE BOOKS Pathology —

- Porter R. (1997) The greatest benefit to mankind: a medical history of humanity from antiquity to the present. HarperCollins, London.
 - B. Rosai J (1997). Pathology: a historical opportunity. Americal Journal of Patholog. Muir's Textbook of Pathology.
 - M.I. Filipe et.al. (202). Histochemistry in Pathology. Churchill Livingstone. London.
- * Textbook or MLT by Prafull B Godkar

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