Lesson plan

**Discipline : DMLT**

**Semester : 3rd**

**Subject : Clinical Microbiology III**

**Lession Plan Duration: 15 weeks (from October, 2022 to January, 2023) Work load ( Lecture / practical ) per week ( n hours) = Lecture=3, Practical=6**

**WORK**

**THEORY**

**Lecture Day Topic (Including assignment/test}**

**Practical**

**Practical Day**

**Topic**

1st 1

2

3

2nd 4

5

6

3rd 7

8

9

4th 10

11

12

5th 13

14

Introduction to medical parasitology L1

General characteristics, morphology of Protozoa

Classification of Protozoa

General characteristics, morphology of L2

Helminthes

classification of Helminthes

Collection, transportation, processing and preservation of blood sample for routine investigations

L3

Collection, transportation, processing and preservation of stool sample for routine investigations

Introduction about Concentration techniques

- Principle and application of concentration techniques(floating techniques)

Simple floating technique L4

DCF technique

Sedimentation techniques( simple )

Sedimentation techniques( formalin ether L5

)

Introduction about Giardia and Morphology of Giardia

Collection and routine stool examination for detection of intestinal parasites by Saline preparation

Collection and routine stool examination for detection of intestinal parasites by Iodine preparation

Collection and routine stool examination for detection of intestinal parasites by Floatation method (saturated salt solution/zinc sulphate)

Collection and routine stool examination for detection of intestinal parasites by Centrifugation method (formal ether)

Identification of Tapeworm from preserved specimen/slides

15

6th 16

17

18

7th 19

20

21

8th 22

23

Life cycle and Lab diagnosis of Giardia

Morphlogy and Life cycle of Entamoeba L6

histolytica

Lab diagnosis of Entamoeba histolytica

Morphology and Life cycle of Ancylostoma

Life cycle and Lab diagnosis of L7

Ancylostoma

Morphology of Ascaris lumbricoides

Life cycle and Lab diagnosis of Ascaris lumbricoides

Assignment L8

Morphology and life cycle of . T solium,

Identification of Roundworm from preserved specimen/slides

Identification of Hookworm from preserved specimen/slides

Identification of Pinworm from preserved specimen/slides

24

9th 25

26

27

10th 28

29

30

11th 31

32

33

12th 34

35

Lab diagnosis T solium,

Morphology and life cycle of T saginata Lab diagnosis T saginata

Introduction about Malarial Parasite Morphology of P. Vivax

Life cycle of P. Vivax Lab diagnosis of P. Vivax

Morphology of P. Falciparum Life cycle of P. Falciparum Lab diagnosis of P. Falciparum Assignment

Introduction about Virology

L9

L10

L11

L12

Identification of Trichamonas vaginilis from preserved specimen/slides

Preparation of stains (Leishman, Giemsa, Field)

Preparation of thin and thick smears

Staining of smears by Leishman, Giemsa, Field

36

13th 37

38

39

14th 40

General Characteristics of virus Structure of viruses.

Classification of virus

Lab diagnosis and prevention of –

* Rabies
* Polio

Lab diagnosis and prevention of – HIV

, HBV (Hepatitis ‘B’ virus)

L13

L14

Examination of smears for malarial parasite (P. vivax)

Examination of smears for malarial parasite( P. falciparum)

41 Introduction about Virological Samples

* Collection of Virological Samples
* Transportation
* Storage

42

Transportation of virological samples

15th

43

44

45

Storage of virological samples

Assignment Test

L15

Demonstration of various stages of malarial parasite from stained slides