



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(EGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

B.Sc. IV Sem Syllabus of Theory

Part A – Introduction

PROGRAMME: UG
Diploma

Class: B.Sc.

B.Sc. IV Sem

Session – 2026-27

Subject – Zoology

1	Course Code		
2	Course Title	Parasitology	
3	Course Type	Discipline Specific Elective – (DSE-2)- B	
4	Pre – requisite (if any)	To study this course, students must have had the subject Zoology in B.Sc. I Year.	
5	Course Learning Outcomes (CLO)	Upon completion of this course students will be able to:- 1. Know the contributions of Indian scientists in parasitology 2. Understand strategies for the prevention and control of parasitic diseases in both human and animal population. 3. Learn details like geographic distribution, life cycle, Pathogenicity control and treatment of parasites.	
6	Credit Value	03	
7	Total Marks	Max. Marks: 30+70	Min. Passing Marks: 35

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Part B- Content of the Course

Total No. of Lectures- Tutorials- Practical (in hour per week) : 3 hour per week L-7

Unit	Topics	No. of Lectures
I	1. Introduction to Parasitology 1.1. Importance of parasitology in Bhartiya Gyan Parampara (Ayurveda). 1.2. Contribution of Indian Parasitologists – Dr.Upendernath Brahmachari, Kishori Mohan Bandyopadhyay, Amiya Bikash Chowdhary. 1.3. Brief introduction of parasitism, parasite, parasitoid and vectors (mechanical and biological vector). 1.4. Host parasite relationship. Suggested Activities: Prepare mini projects on Indian Parasitologists. Keywords: Parasitism, parasite, vector, host parasite relationship	10
II	1. Parasitic Protists 1.1. Study of Morphology, Life Cycle, Prevalence Epidemiology, Pathogenicity, Diagnosis and Treatment of <i>Entamoeba histolytica</i>, <i>Giardia intestinalis</i>, <i>Trypanosoma gambiense</i>, <i>Leishmania donovani</i> and <i>Plasmodium vivax</i>. Suggested Activities: Prepare charts of life cycle of Protists parasites. Keywords: <i>Giardia</i>, <i>Trypanosoma</i>, <i>Leishmania</i>, <i>Plasmodium</i>.	10
III	1. Parasitic Platyhelminthes 1.1 Study of Morphology, Life cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of <i>Fasciolopsis buski</i>, <i>Schistosoma haematobium</i>, <i>Taenia solium</i> and <i>Hymenolepis nana</i>. 2. Parasitic Nematodes	12

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Dr. Saiyeda

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	a. Study of Morphology, Life cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of <i>Ascaris lumbricoides</i>, <i>Ancylostoma duodenale</i>, <i>Wuchereria bancrofti</i> and <i>Trichinella spiralis</i>. Suggested Activities: 1. Prepare charts of diseases caused by Platyhelminthes. 2. Prepare charts of diseases caused by Nematodes. Keywords: Parasitic Platyhelminthes, parasitic Nematodes, Epidemiology and treatment.	
IV	1. Parasitic Arthropoda 1.1. Biology, Importance and Control of ticks, mites, <i>Pediculus humanus</i> (head and body louse), <i>Xenopsylla cheopis</i> and <i>Cimex lectularius</i>. 2. Parasitic Vertebrates 2.1. A brief account of parasitic Vertebrates, Cookicutter Shark, Candiru, Hood Mockingbird and Vampire bat. Suggested Activities: Prepare list of parasitic arthropods and parasitic Vertebrates in your surroundings. Keywords: Cookicutter Shark, Candiru, Vampire bat.	13

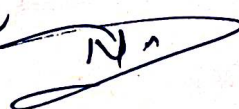

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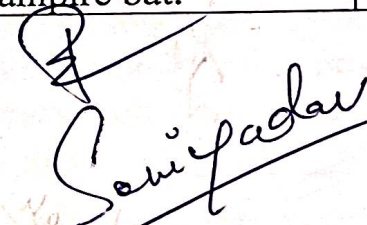

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Part D-Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 30 Marks

University Exam (UE) 70 marks

Internal Assessment: Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation	30
External Assessment: University Exam Section Time: 03 Hours	Section (A): Very Short Questions Section (B): Short Questions Section (C): Long Questions	70

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B.Sc. IV Sem SUBJECT: Zoology Practical syllabus

Part A – Introduction

PROGRAMME: UG
Diploma

Class: B.Sc.

2 Year/IV Sem

Session – 2026-27

Subject – Zoology

1	Course Code	
2	Course Title	Practical of Parasitology
3	Course Type	Discipline Specific Elective – (DSE-2) - B
4	Pre – requisite (if any)	To study this course students must have had the subject of Zoology in B.Sc. I Year.
5	Course Learning Outcomes (CLO)	After completion of this course students will be able to: 1. Differentiate between various parasites types, such as Protozoa, Helminths and Arthropods, and be able to identify them using morphological and diagnostic techniques. 2. Learn various techniques used in examination of living hosts, collection, preservation, permanent slides preparation and identification of arthropod vectors.
6	Credit Value	01
7	Total Marks	Max. Marks: 30+70 Min. Passing Marks: 35

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Part B- Content of the Course

Total No. of Practical's- Tutorials- Practical (in hour per week) : 2 hour per week

Unit	Topics	No. of Lectures
I	Study of <i>Entamoeba histolytica</i> , <i>Giardia intestinalis</i> , <i>Trypanosoma gambiense</i> , <i>Leishmania donovani</i> and <i>Plasmodium vivax</i> through permanent slides.	10
II	Study of adult and life stages of <i>Fasciolopsis buski</i> , <i>Taenia solium</i> , <i>Ascaris lumbricoides</i> , <i>Wuchereria bancrofti</i> , <i>Schistosoma haematobium</i> .	10
III	Study of <i>Pediculus humanus</i> (head louse and Body louse), <i>Xenopsylla cheopis</i> and <i>Cimex lectularius</i> through permanent slides/ photographs.	06
IV	Study of monogenea parasite from the gills of fresh water fishes (by video).	04
	Keywords: <i>Entamoeba histolytica</i> , <i>Fasciolopsis buski</i> , <i>Pediculus humanus</i> .	

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