

FOUR YEAR UNDERGRADUATE PROGRAM (2024 – 28)
DEPARTMENT OF ZOOLOGY
COURSE CURRICULUM

PART- A: Introduction

Program: Bachelor in Life Science (Diploma / Degree/ Honors)		Semester - III	Session: 2024-2025
1	Course Code	ZOSE- 01P	
2	Course Title	Parasitology	
3	Course Type	Discipline Specific Elective Lab Course	
4	Pre-requisite (if, any)	<i>As per Program</i>	
5	Course Learning Outcomes (CLO)	<p>At the end of this course, the students will be able -</p> <ul style="list-style-type: none"> ➢ Identify common parasitic Protozoa and Helminth. ➢ Learn techniques for studying growth of bacteria and its staining. ➢ Learn the techniques for examine Sputum, Blood, Urine and Stool samples for pathology 	
6	Credit Value	1 Credits	<i>Credit =30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

PART -B: Content of the Course

Total No. of learning-Training/performance Periods: 30 Periods (30 Hours)

Module	Topics (Course contents)	No. of Period
Lab./Field Training/Experiment Contents of Course	<ul style="list-style-type: none"> ➢ Study of permanent slides and specimens of parasitic Protozoans and Helminthes. ➢ Pathological examination of sputum, blood, urine and stool. ➢ Blood: Erythrocyte Sedimentation Rate (ESR), Haematocrit. ➢ Staining and identification of Gram positive and Gram negative bacteria. ➢ Preparation of thin and thick blood films to diagnose Plasmodium infections/ or permanent slides. ➢ Preparation of temporary and permanent slides of faecal matter by saline preparation and concentration techniques to identify cysts of parasitic Protozoans and Helminthes eggs /or parmanent slides studies. ➢ Study Kinetics of bacterial growth and staining techniques. ➢ Group discussion or Seminar presentation on one or two related topics ➢ Group discussion/quiz/seminar on topics related to theory. ➢ Preparation of practical record or Album of parasites. 	30

Keywords Parasitic protozoa, helminth, ESR, Gram positive and Gram negative

Signature of Convener & Members (CBoS) :

Rahul *b* *Rajesh* *sunil* *lalit*
MD *engm* *Pratap* *sunil* *lalit*

PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended –

- Ghosh Saugala, Panikar's Text book of Parasitology. Jaipyee Brothers
- Ananthanarayan and Paniker's Textbook of Microbiology, Twelfth Edition, Universities press

Reference Books Recommended –

- K.D. Chattargee, Parasitology . CBS Publisher

Online Resources –

- http://ndl.iitkgp.ac.in/he_document/swayam_ugc_moocs/swayam_ugc_moocs/IN_SUM_1UC_17AD_4127MLh0ALwPAoAL_34326_34327?e=7*||
- http://ndl.iitkgp.ac.in/he_document/swayam_ugc_moocs/swayam_ugc_moocs/IN_SUM_1UC_17AD_4127MLh0Tsafh_10250_10251?e=8*||

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Teacher)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar +Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work - 20 Marks B. Spotting based on tools & technology (written) – 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Course teacher as per lab. status

Name and Signature of Convener & Members of CBoS:



