

**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)	As per Program	
5	Course Learning Outcomes (CLO)	At the end of this course, the students will be able - ➤ 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	Credit =30 Hours Laboratory or Field learning/Training
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"><li>➤ Study of permanent slides and specimens of parasitic Protozoans and Helminthes.</li><li>➤ Pathological examination of sputum, blood, urine and stool.</li><li>➤ Blood: Erythrocyte Sedimentation Rate (ESR), Haematocrit.</li><li>➤ Staining and identification of Gram positive and Gram negative bacteria.</li><li>➤ Preparation of thin and thick blood films to diagnose Plasmodium infections/ or permanent slides.</li><li>➤ 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 parmanant slides studies.</li><li>➤ Study Kinetics of bacterial growth and staining techniques.</li><li>➤ Group discussion or Seminar presentation on one or two related topics</li><li>➤ Group discussion/quiz/seminar on topics related to theory.</li><li>➤ Preparation of practical record or Album of parasites.</li></ul>		30
Keywords	Parasitic protozoa, helminth, ESR, Gram positive and Gram negative		
Signature of Convener & Members (CBoS) :			

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## PART-C: Learning Resources

Text Books, Reference Books and Others

### Text Books Recommended –

- Ghosh Saugala, Panikar's Text book of Parasitology. Jaipye 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 S U M 1 U C 17 A D 4127 M L h o A L w P A o A L 34326 34327?e=7|\\*|||](http://ndl.iitkgp.ac.in/he document/swayam ugc moocs/swayam ugc moocs/IN S U M 1 U C 17 A D 4127 M L h o A L w P A o A L 34326 34327?e=7|*|||)
- [http://ndl.iitkgp.ac.in/he document/swayam ugc moocs/swayam ugc moocs/IN S U M 1 U C 17 A D 4127 M L h o T s a F h 10250 10251?e=8|\\*|||](http://ndl.iitkgp.ac.in/he document/swayam ugc moocs/swayam ugc moocs/IN S U M 1 U C 17 A D 4127 M L h o T s a F h 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:

*Signature of Convener and Members of CBoS:*