

ST. ALOYSIUS' COLLEGE (AUTONOMOUS), JABALPUR

Reaccredited 'A++ 'Grade by NAAC(CGPA:3.58/4.00) College with Potential for Excellence by UGC DST-FIST Supported & STAR College Scheme by DBT

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TO THE REAL PROPERTY.		Part A Introd	luction (Theory	7)
Prog	ram: Certificate	Class: B.Sc.	Semester: I	Session: 2025-26
		Subject: Zo	ology Major – l	Į.
1	Course Code			
2	Course Title	Animal Diversity	I: Lower Non-Cl	iordata
3	Course Type (Core Course/ Discipline Specific Elective/)	Major – I		
4	Pre-requisite (if any)	Class		have the subject Biology in 12th
5	Course Learning	understand: 1 Animal class		ne learners will be able to to Indian knowledge-based
	outcomes (CLO)	3. In practical le	learning and by pr	owledge by group discussion, roject work.
6	Credit Value		06	26.1.25
7	Total Marks	Max. Marl	cs: 30 + 70	Min. Passing Marks: 35

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Dr. Priyaks son Dr. Runa Paul Des. Daya Sharker bruten

Mr. Amita Saxena

Total No. of Lectures-Tutorials-Practical (in hours per week): 2 hours / Week L-T-P

TY		No. of
Unit	Topics	Lecture
		Ber
		in the second
Unit 1	 Taxonomy and Historical Background of Lower Non-Chordates – Classification of Lower Non-Chordates by Charak (Reference Charak Samhita, Sutrasthan 27/34-45) on the basis of their Habitat and Nutrition. Correlation between Mythological Avatars and Evolution of 	12
	Animals 3. Outline Classification of Animal Kingdom. 4. Rules of Nomenclature. Keywords/Tags: Classification, Nomenclature, Mythology, Evolution.	
Suggestive	1. Role plays of Pauric Avatars related to Biological Evolution.	
Activity	2. Making of Flow Chart of Animal kingdom.	
Unit 2	Phylum - Protozoa and Porifera	12
	 Habitat Mentioned in "Shri Ram Charit Manas ki Vaigyanik Teeka"; by Dr. S. P. Gautam. Characteristics and Outline Classification up to Classes according to Parker and Haswell 7th edition revised by Marshall and Williams Protozoa and Disease. Cellular Organization and Canal System in Porifera Medicinal and Economic uses of Sponges Keywords/Tags: Protozoa, Disease, Porifera, Canal system, Cellular organization 	12
Suggestive 1	. Submit an assignment on Protozoa and Disease	
Activity 2.	. Making of poster of different Canal system of Porifera	

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Unit 3	Phylum - Coelenterata-	12
	1. Habitat of Coelenterates mentioned in "Shrimad Bhagwat me	
	Vigyan".	
	2. Characteristics and Classification up to Classes by Parker and	
	Haswell 7th edition revised by William Marshall.	
	3. Polymorphism and Metagenesis.	
,	4. Role of Corals in Marine Ecosystem as mentioned in Rigveda	r r
	(Reference: Rigveda 1.71.2.)	
	5. Coral: Medicinal, Cultural and its Economic Importance.	
	Keywords/Tags: Coelenterata, Polymorphism, Metagenesis, Coral	
Suggestive	1. Making of chart of Obelia Life-History	
Activity	2. Collect pictures of Corals and write their Zoological Names	
Unit 4	Phylum - Platyhelminthes	12
	1. Its habitat mentioned in Shrimad Bhagwat mein Vigyan.	
	2. Characteristics and Classification up to Classes by Parker and	
	Haswell 7 th edition revised by William Marshall.	
	3. Fasciola - External Structure, Excretory System, Reproductive	
	System.	
	4. Fasciola – Life Cycle and Parasitic Adaptations.	
	5. Antiparasitic and Antimicrobial Properties of Platyhelminths	
	Keywords/Tags: Platyhelminthes, Excretory system, Reproductive system, Life Cycle, Parasitic Adaptations	
Suggestive	1. Make placards of Parasitic Adaptations Roundworms and Flatworms.	-
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Unit 5	Phylum - Aschelminthes	12	
	1. Characteristics and Classification up to Classes by Parker and		
	Haswell 7 th edition revised by William Marshall.		
	2. Concept of Pseudocoel.		4
	3. Study of Pathogenic Helminthes.		
	4. Medicinal uses of Round Worms.		
	Keywords/Tags: Aschelminthes, Pseudocoel, Pathogenic, Round Worms.		
Suggestive	1. Group discussion on hygiene and Pathogenic Helminthes		\dashv
Activity	2 danogomo riemminies		

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Part	t -C: Assessment & Evaluation (Theory)		
		* 122 p		2
Suggested Continuous Evaluati	tion Methods: Maximum Marks: 10	0		
Continuous Comprehensive Evaluat	tion (CCE): 30 Marks			
University Exam (UE) 70 marks				
				1
Internal Assessment:	A STATE OF THE STA	12		
Continuous Comprehensive Evaluation (CCE)	Class Test Assignment/Presentation		30	ü
External Assessment:	Section(A): Very Short Questions			
	Section (B): Short Questions		50	
T T	Section (C): Long Ouestions		70	

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Andrew Communication Communica		Par	t A Introdu	ction (Practical)	
Pı	Program: Certificate Class			Semester : First	Session: 2025-26
		Sı	ıbject: Zoo	logy Major – I	
1	Course Code	e			
2	Course Title	9	Animal Diversity I - Lower Non-Chordate		
3	Course Type (Core Discipline Specific) Elective/ Generic 1	Elective/ Elective	Major –	I	
	/Vocational/)	,		1 1 1 1
4	Pre-requisite (if	any)	Biology in	12 th Class.	nt must have had the subject
5	Course Learning o	utcomes	Upon com	pletion of the cour	se students should be able to
	(CLO)		through 2. The pa 3. Enhance through assigns	lentification of the h study of museum sthogenic lower nonce collaborative learning practical sessions, ments and projects.	ning and communication skills team work, group discussions,
6	Credit Value	2	1	02	
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 hours per week):

L-T-P:

Unit/S.	Topics	No. of hours
No.		House
1	Study of Museum Specimens and Slides of Lower Non-Chordates.	10
2	Fasciola - Excretory System and Reproductive System. Demonstration (Only through You Tube, Models or Charts)	05
3	Examination of Pond Water for study of different kinds of Microscopic Organisms.	05
4.	Study of Pathogenic Protozoa.	05
5.	Study of Pathogenic Helminthes.	05

Keywords/Tags: Museum Specimens, slides, Excretory system, Reproductive system, Microscopic Organisms, Pathogenic

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	Part -C: Assessm			T
	Suggested Continue	ous Evaluati	on Methods:	
,	Internal Assessment	Marks	External Assessment	Marks
1 2	Class Interaction/Quiz Attendance Practical Record File	20		70
	Assignments (Charts/Model Seminar/Rural Service /Technology	30	Viva Voce on Practical	70
3	Dissemination/ Report of Excursion /Lab Visit/Survey/ Industrial visit)		Table work/Experiments	
	Total	30		70

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23/08/25

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