



Syllabus effective from the Academic Year 2024-2025

B.Sc. Zoology Semester I US01MAZOO01 (T) Animal Diversity and Physiology-1 Effective from June 2024 Zoology Major Course

Course Code	US01MAZOO01[T] Title of the Course Animal Diversity and Physiolog		Animal Diversity and Physiology-1
Total Credits of the Course	04	Hours per Week	
Course Objectives:	emphasis on their exp 2.To understand the l	ne Zoological perimental outcomes concepts adding of gene	of types of Invertebrates. The unit also eral aspects of Invertebrate Phyla and

Cours	e Content	
Unit	Description	Weightage* (%)
1.	 General characteristics and outline classification of lower Invertebrate Phyla, [up to Helminthes] Physiology of Nutrition and reproduction in Protozoa Life cycle and pathogenicity of Plasmodium vivax and Entamoeba histolytica. Sponges: Canal system and Skeleton. Alternation of generations between in Obelia. Life cycle and pathogenicity of Fasciola hepatica and Wuchereria bancrofti. 	25%
2.	 General characteristics and outline classification of Higher Invertebrate Phyla [up to Echinodermata] Type Study: Pheritima Economic importance of Annelida 	25%
3.	Social Life of Insect	25%

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	 Type study: Periplaneta Economic Importance of Mollusca Water vascular system in Asteroidea 	
4.	 Human Physiology Of Digestion: Digestive organs and Digestive glands Digestion of food Absorption of food Defecation Disorders: Peptic Ulcer, Ulcerative Colitis, Gastro enteritis. 	25%

Teaching- Learning Methodology	 Class room interactions By chalk –duster method By using OHP- Powerpoint presentation By Giving project work By giving Students seminar, unit test, assignment Question bank circulation Arranging guest talk
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Evalı	Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Marks-Exam Pattern: Class test-15marks(30%), Quiz-15marks(30%), Active learning-5marks(10%), Home assignment-5marks(10%), Class assignment-5marks(10%), Attendance-5marks(10%)	50% (50 Marks)	
2.	External Marks (10marks MCQs + 10marks descriptive Questions From each 4- unit)	50% (50 Marks)	

Cou	Course Outcomes:	
1.	To improve the scientific awareness among the students.	
2.	To make students to understand the role and contribution of Zoology in the development	



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of science.

3. To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.

4 To help students in understanding the concepts of Zoology.

Sr. No.	Reference Books:
1.	Modern Text book of Zoology – Invertebrate by R.L.Kotpal
2.	Invertebrate Zoology by- Jordan & Verma
3	A Text book of Animal Physiology by A.K.BERRY.
4	Animal Physiology by M.P.ARORA.
5	Principles of Anatomy & Physiology by TORTORA and GRABOWSKI

On-lineResources:
https://www.biologydiscussion.com/zoology/
https://www.slideshare.net/



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Vallabh Vidyanagar, Gujarat
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B.Sc. FIRST SEMESTER US01MAZOO02, PRACTICAL – MAJOR ZOOLOGY

Effective from June 2024

Course Code	US01MAZOO02 (P)	Title of the Course	Animal Diversity and Physiology-1
Total Credits of the Course	04	Hours per Week	08
Course Objectives:	emphasis on their 6 2.To understand th	the Zoological experimental our e basic concepts tanding of gen	s of types of Invertebrates. The unit also eral aspects of Invertebrate Phyla and

Course	Course Content				
Unit	Description	Weightage* (%)			
Part- 1.	 Classification upto class using Permanent slides and Specimen of Entaoeba histolytica, Plasmodium Vivex, Leucosolenia, Sycon, Hydra viridis, Jellyfish(Aurelia), Sea anemone (Metridium), Classification upto class using Permanent slides and Specimen of Tap worm (Tenia Solium), Liver fluke (Fasciola hepatica)Ascaris Lumbricoides, Filaria (Wuchereria bancrofti) Reproduction like Binary Fission Amoeba, Euglena, Paramecium, Ceratium, Conjugation in Paramecium Permanent Slides, Sponges Canal system Asconoid, Syconoid and Leuconoid and all types of Spicules Study of Obelia with permanent slides Life cycle and pathogenicity of Fesciola hepatica and Wuchereria bancrofti On field study of vermiculture (Specimen other than the list can be exhibit to the students as per the availability in 	50%			



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Syllabus effective from the Academic Year 2024-2025

	the Institutes)	
Part-2.	Classification upto Class. Earthworm(pheretimaposthuma), Neries, Leech(Hirudinaria granulose), Cockroach (Periplanetaamericana), Locust (swarming grasshopper), Prawn (Palaemon), Sea Cucumber(HolothuriaLinnaeus), Starfish (asteroid). Permanent slides, Chaetae (setae), jaws of leech, parapodia of Nereis, mouth parts of Cockroach, Spiracles, Trachea Social organization of Honey Bee Complete Metamorphosis in Insects To Study Amylase effect on Starch To Study Tripsin effect on Protein On field study of Insect Diversity (Specimen other than the list can be exhibit to the students as per the availability in the Institutes)	50%

Teaching- Learning Methodology • Using student's Microscope • Observation of specimens • Using certain chemicals for test • Learn through chart /Model/ Video/ ppt • Field visit, Project submission • Preparing journal through various diagrams & description	
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Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Examination evaluation includes Lab Work Assignment-20 marks(40%), Viva-voce/Lab Quiz-20marks(40%), Attendance-10marks(20%)which makes total 50 Marks.	50%	
2.	External Examination Evalution includes Lab work Assignment-20 marks(40%), Viva-voce/Lab Quiz-20marks(40%),Attendance-10marks(20%)which makes total 50 Marks.	50%	

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Vitthalbhai Patel & Rajratna P. T. Patel Science College (Autonomous)

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Cou	Course Outcomes:			
1.	To improve the scientific awareness of animals among the students.			
2.	To make students to understand the role of animals and their importance in life.			
3.	To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.			
4	To help students in understanding the concepts of Zoology.			
5	Understand how to demonstrate factors affecting enzyme activity			

Suggested Reference Books:		
Sr. No.	Reference Books	
1.	A Manual of Practical Zoology- Invertebrate by P.S.VERMA	
2.	Practical Physiology, Anatomy & Biochemistry by SHAH, PATEL& GOEL	
3	Practical Zoology Invertebrate by S.S. LAL	

O	on-line resources :
ht	ttps://www.biologydiscussion.com/zoology/
ht	ttps://www.slideshare.net/



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B.Sc. Zoology Semester I US01MIZOO01 (T) Invertebrate Diversity Effective from June 2024 Zoology Minor Course

Course Code	US01MIZOO01 (T)	Title of the Course	Invertebrate Diversity
Total Credits of the Course	Hours per 02		
Course Objectives:	To make students familiar with: 1. To understand the Zoological concepts of Animal with particular emphasis on their experimental outcomes. 2.To understand the basic concepts of andgeneral account of lower and higher Invertebrate phyla.		

Course	Course Content			
Unit	Description	Weightage*		
1.	 General characteristics and outline classification of lower Invertebrate Phyla, [up to Helminthes] Physiology of Nutrition and reproduction in Protozoa Life cycle and pathogenicity of Plasmodium vivax and Entamoeba histolytica Sponges: Canal system and Skeleton Life cycle and pathogenicity of Fasciola hepatica and Wuchereria bancrofti 	50%		
2.	 General characteristics and outline classification of Higher Invertebrate Phyla [up to Echinodermata] Economic importance of Annelida Social Life of Insect Economic Importance of Mollusca Water vascular system in Asteroidea 	50%		



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Teaching- Learning Methodology	 Class room interactions By chalk –duster method By using OHP- Powerpoint presentation By Giving project work By giving Students seminar, unit test, assignment Question bank circulation Arranging guest talk
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Evaluation Pattern			
Sr. No.	Details of the Evaluation Internal and/or External Examination Evaluation	Weightage	
1.	Internal Examination Evaluation includes Class test-10 marks(40%), Quiz -5 marks(20%), Home assignment-5 marks (20%), Attendance-5 marks(10%) which makes total 25 marks	50%	
2.	External Examination [MCQs (5marks from all units) + Descriptive Questions(10 marks from each unit) total -25marks	50%	

Cou	Course Outcomes:			
1.	To improve the scientific awareness among the students.			
2.	To make students to understand the role and contribution of Zoology in the development of science.			
3.	To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.			
4	To help students in understanding the concepts of Zoology.			

Suggested Reference Books:		
Sr. No.	Reference Books	
1.	Modern Text book of Zoology – Invertebrate by R.L.Kotpal	



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2. Invertebrate Zoology by- Jordan & Verma

On-line resources
https://www.biologydiscussion.com/zoology/
https://www.slideshare.net/

B.Sc. FIRST SEMESTER US01MIZOO02, Minor Zoology Practical Effective from June 2024

Course Code	US01MIZOO02	Title of the	Invertebrate Diversity
	(P)	Course	
Total Credits	02	Hours per	04
of the Course	02	Week	
Course Objectives:	emphasis on their 2. To understand t	d the Zoologic Experimental ou he basic concept	al concepts of Animal with particular atcomes. Its of types of Invertebrates. The unit also ral Aspects of Invertebrate Phyla and

Course Content		
	Practicals	
	Classification upto class using Permanent slides and Specimen of Entaoeba histolytica, Plasmodium Vivex, Leucosolenia, Sycon, Hydra viridis, Jellyfish(Aurelia), Sea anemone (Metridium), Tap worm (Tenea Solium), Liver fluke (Fasciola hepatica)Ascaris Lumbricoides, Filaria (Wuchereria bancrofti) • Classification upto Class. Earthworm(pheretimaposthuma), Neries,	



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Leech(hirudinariagranulose), Cockroach (Periplanetaamericana), Locust (swarming grasshopper), Prawn (Palaemon), Sea Cucumber(HolothuriaLinnaeus), Starfish (asteroid).

- Reproduction like Binary Fission Amoeba, Euglena, Paramecium, Ceratium, Conjugation in Paramecium
- Permanent Slides, Sponges Canal system Asconoid, Sycanoid and Leuconoid and all types of Spicules
- Permanent slides, Chaetae (setae), jaws of leech, parapodia of Nereis, mouth parts of Cockroach, Spiracles, Trachea
- Social organization of Honey Bee
- Complete Metamorphosis in Insects
- Field Study

Teaching-
Learning
Methodology

- Using student's Microscope
- Observation of specimens
- Using certain chemicals for test
- Learn through chart /Model/ Video/ ppt
- Field visit, Project submission
- Preparing journal through various diagrams & description

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Examination Evaluation includesLab work Assignment-10marks (40%), Viva-voce/Lab quiz-10 marks(40%), Attendance-5marks (20%) which makes total 25 marks	50%
2.	External Examination Evaluation includesLab work Assignment-10marks (40%), Viva-voce/Lab quiz-10 marks(40%), Attendance-5marks (20%) which makes total 25 marks	50%

Cou	Course Outcomes:	
1.	To improve the scientific awareness of animals among the students.	



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To make students to understand the role of animals and their importance in life.
 To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.

Suggeste	Suggested Reference Books:	
Sr. No.	Reference Books	
1.	A Manual of Practical Zoology- Invertebrate by P.S.VERMA	
2.	Practical Zoology Invertebrate by S.S. LAL	

https://www.biologydiscussion.com/zoology/
https://www.slideshare.net/

B.Sc. Zoology Semester I US01IDZOO01 (T) Invertebrates Effective from June 2024 Zoology Inter disciplinary Course

Course Code	US01IDZOO01	Title of the	Invertebrates
	(T)	Course	
Total Credits	02	Hours per	02
of the Course	02	Week	
Course Objectives:	1. To understand emphasis on their 2.To understand	To make students familiar with: 1. To understand the Zoological concepts of Animal with particular emphasis on their experimental outcomes. 2.To understand the basic concepts of andgeneral account of lower and higher Invertebrate phyla.	



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Cours	Course Content		
Unit	Description	Weightage* (%)	
1.	 General characteristics and outline classification of lower Invertebrate Phyla, [up to Helminthes] Physiology of Nutrition and reproduction in Protozoa Life cycle and pathogenicity of Plasmodium vivax and Entamoeba histolytica Sponges: Canal system and Skeleton Life cycle and pathogenicity of Fasciola hepatica and Wuchereria bancrofti 	50%	
2.	 General characteristics and outline classification of Higher Invertebrate Phyla [up to Echinodermata] Economic importance of Annelida Social Life of Insect Economic Importance of Mollusca Water vascular system in Asteroidea 	50%	

Teaching- Learning Methodology	 Class room interactions By chalk –duster method By using OHP- Powerpoint presentation By Giving project work By giving Students seminar, unit test, assignment Question bank circulation Arranging guest talk
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Evalu	Evaluation Pattern	
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Examination Evaluation includes Class test-10 marks(40%), Quiz -5 marks(20%), Home assignment-5 marks (20%), Attendance-5 marks(10%) which makes total 25 marks	50%

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2.	External Examination [MCQs (5marks from all units) + Discriptive	50%
	Questions(10 marks from each unit) total -25marks	

Cou	Course Outcomes:		
1.	To improve the scientific awareness among the students.		
2.	To make students to understand the role and contribution of Zoology in the development of science.		
3.	To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.		
4	To help students in understanding the concepts of Zoology.		

Suggeste	Suggested Reference Books:	
Sr. No.	Reference Books	
1.	Modern Text book of Zoology – Invertebrate by R.L.Kotpal	
2.	Invertebrate Zoology by- Jordan & Verma	

On-line resources
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https://www.slideshare.net/



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B.Sc. FIRST SEMESTER PRACTICAL - ZOOLOGY US01IDZOO02 (P) Invertebrates Effective from June 2024

Course Code	US01IDZOO02	Title of the	Invertebrates
	(P)	Course	
Total Credits of the Course	02	Hours per Week	02
Course Objectives:	To understand emphasis on their To understand t	To make students familiar with: 1. To understand the Zoological concepts of Animal with particular emphasis on their Experimental outcomes. 2. To understand the basic concepts of types of Invertebrates. The unit also ntroduces understanding of General Aspects of Invertebrate Phyla and	

Course	Course Content		
Unit	Description	Weightage* (%)	
1.	Classification upto class using Permanent slides and Specimen of Entaoeba histolytica, Plasmodium Vivex, Leucosolenia, Sycon, Hydra viridis, Jellyfish(Aurelia), Sea anemone (Metridium), Tap worm (Tenea Solium), Liver fluke (Fasciola hepatica)Ascaris Lumbricoides, Filaria (Wuchereria bancrofti) • Classification upto Class. Earthworm(pheretimaposthuma), Neries, Leech(hirudinariagranulose), Cockroach (Periplanetaamericana), Locust (swarming grasshopper), Prawn (Palaemon), Sea Cucumber(HolothuriaLinnaeus), Starfish (asteroid). • Reproduction like Binary Fission Amoeba, Euglena, Paramecium, Ceratium, Conjugation in Paramecium • Permanent Slides, Sponges Canal system Asconoid, Sycanoid and Leuconoid and all types of Spicules • Permanent slides, Chaetae (setae), jaws of leech, parapodia of Nereis,		



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mouth parts of Cockroach, Spiracles, Trachea	
Social organization of Honey Bee	
Complete Metamorphosis in Insects.	

Complete Metamorphosis) 111	111
Field Study		

•	Field	Study
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Teaching- Learning Methodology	 Using student's Microscope Observation of specimens Using certain chemicals for test Learn through chart /Model/ Video/ ppt Field visit, Project submission
	 Preparing journal through various diagrams & description

Evalu	Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage	
1.	Internal Examination Evaluation includes Class test-10 marks(40%), Quiz -5 marks(20%), Home assignment-5 marks (20%), Attendance-5 marks(10%) which makes total 25 marks	50%	
2.	External Examination [MCQs (5marks from all units) + Discriptive Questions(10 marks from each unit) total -25marks	50%	

Cou	Course Outcomes:	
1.	To improve the scientific awareness of animals among the students.	
2.	To make students to understand the role of animals and their importance in life.	
3.	To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.	

Suggested Reference Books:	
Sr. No.	Reference Books



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1.	A Manual of Practical Zoology- Invertebrate by P.S.VERMA	
2.	Practical Zoology Invertebrate by S.S. LAL	
On-line resources		
https://w	https://www.biologydiscussion.com/zoology/	
https://w	https://www.slideshare.net/	



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Syllabus effective from the Academic Year 2024-2025

B.Sc. Zoology Semester I US1SEZOO01 (T) Wildlife and Techniques Effective from June 2024

Course Code	US01SEZOO01 [T]	Title of the Course	Wildlife and Techniques
Total Credits of the Course	02	Hours per Week	02
Course Objectives:	emphasis on their 2. To understand	d the Zoologic Fields outcomes the basic con	al concepts of Animal with particular s. acepts of wildlife and there studies. The ortance and Techniques of the Wildlife.

Course	Course Content			
Unit	Description	Weightage* (%)		
1.	Wild life of India, Sanctuary of India. National parks under special Projects: Tiger, Lion, Elephant, Crocodile, Spotted dear breeding Projects Endangered species	50%		
2.	Wildlife Photography Wildlife Handy tools Magnifying glass, Scale, Camera traps GPS collars Telemetry equipment Weatherproof stationery cases and bags Tongs, Hooks Data sheets	50%		

Teaching- Learning	 Class room interactions By chalk –duster method 	
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Methodology By using OHP- Power point presentation By Giving project work By giving Students seminar, unit test, assignment Question bank circulation Arranging guest talk Field visit

Evalu	Evaluation Pattern				
Sr. No.	Details of the Evaluation	Weightage			
1.	Internal Examination Evaluation includes Class test-10 marks(40%), Quiz -5 marks(20%), Home assignment-5 marks (20%), Attendance-5 marks(10%) which makes total 25 marks	50%			
2.	External Examination [MCQs (5marks from all units) + Discriptive Questions(10 marks from each unit) total -25marks	50%			

Cou	Course Outcomes:				
1.	To improve the scientific Skills and awareness among the students.				
2.	To make students to understand the role and contribution of wildlife Zoology in the development of science.				
3.	To improve scientific attitude and to give emphasis on the development of experimental skills, data analysis, calculations, and also on the limitations of the experimental method and Scientific data as well as results obtained.				
4	To help students in understanding the concepts of wild life Zoology.				

Suggest	Suggested Reference Books:	
Sr. No.	Reference Books	

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Modern Text Book of zoology - Vertebrate by R .L. KOTPAL.
 Chordate Zoology by JORDAN AND VERMA
 IAS ZOOLOGY BY SATGURUPRASAD

On-line resources
https://www.biologydiscussion.com/zoology/
https://www.slideshare.net/

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(Bachelor of Science) (Undergraduate) B. Sc. (UG) Semester-I

Cours	e Code	US01XXXX51	Title of the Course	XXXXXXXXXX	XX
	Total Credits Of the Course XX Week XX XX		XX		
Cours Objec		To make students 1. 2.	familiar with:		
Cours	e Content				
Unit	Descript	tion			Weightage*
1.					25%
2.					25%
3.					25%
4.					25%
		1			
Teach Learn Metho					
Evalu	ation Patte	ern			
Sr. No.	Details of	f the Evaluation			Weightage
1.					
2.					
3.					

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(Bachelor of Science) (Undergraduate) B. Sc. (UG) Semester-I

		1	B. Sc. (UG) Semesi	CI-I	
Course	e Code	US01XXXX51	Title of the Course	XXXXXXXXXX	XXX
Total Credits of the Course		XX	Hours per Week	XX	
Course Objectives:		To make students 1. 2.	familiar with:		
Course	e Content				
Unit	Descript	tion			Weightage*
1.					25%
2.					25%
3.					25%
4.					25%
Teach Learni Metho					
Evalua	ation Patte	ern			
Sr. No.	Details of	f the Evaluation			Weightage
1.					
2.					

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(Bachelor of Science) (Undergraduate) B. Sc. (UG) Semester-I

			2. 24. (0.0) 2443.		
Course	Course Code US01XXXX51 Title of the Course XXXXXX		XXXXXXXXXX	XXXXXXX	
Total Credits of the Course		XX	Hours per Week	XX	
Course Object		To make students 1. 2.	familiar with:		
Course	e Content				
Unit	Descrip	tion			Weightage* (%)
1.					25%
2.					25%
3.					25%
4.					25%

Teaching-	
Learning	
Methodology	

Evaluation Pattern			
Sr. No.	Details of the Evaluation	Weightage	
1.			
2.			
3.			



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