

Schedule of Teaching

Department of Zoology

A.B.V. Govt. College Sunni
Distt. Shimla (H.P)

Teaching Plan for BSc Zoology First Year (DSC Courses)

Name of the Department: Zoology

Name of the Teacher: Dharminder Singh Uttam

Name of the Course: DSC 1A: **Animal Diversity** (ZOOL 101 TH)

DSC 1B: **Comparative Anatomy and developmental Biology of Vertebrates** (ZOOL 102 TH)

Month	Weeks	Book/ Unit/Topic	Teaching Method / Resources	Student Activities
July		UNIT (ZOOL 101 TH)	Lecture	Assignments
	1st	1. Kingdom Protista/ 2. Phylum Porifera		
	2 nd	3. Phylum Cnidaria/ 4. Phylum Platyhelminthes		Class Test
	3 rd	5. Phylum Nematelminthes		
	4 th	Class Test		
August			Lecture	Discussion
	1st	6. Phylum Annelida/ 7. Phylum Arthropoda		
	2nd	8. Phylum Mollusca/ 9. Phylum Echinodermata		
	3rd	10. Protochordates/ 11. .Agnatha		
	4th	Discussion		
September			Lecture	Quiz
	1st	12. Pisces/13. Amphibia		
	2 nd	14. Reptiles/15. Aves		
	3rd	16. Mammals		
	4 th	Quiz		
October		UNIT (ZOOL 102 TH)	Lecture	Students presentations
	1st	1. Integumentary/2. Skeletal system		
	2nd	3. Digestive/ 4. Respiratory system		

	3 rd	5.Circulatory/ 6.Urinogenital system		
	4 th	Students presentations		
November	1 st	7.Nervous system/8. Sense organs	Lecture	
	2 nd	9.Early Embryonic Development		
	3 rd	do		Assignments
	4 th	Assignments		
December	1 st	10. Late Embryonic Development	Lecture	Quiz
	2 nd	Mid –Term Exams		
February	2 nd	10.Late Embryonic Development	Lecture	Students presentation
	3 rd	11. Control of Development		
	4 th	Students presentation		

Teacher's Signature

Teaching Plan for BSc Zoology Second Year (DSC Courses)

Name of the Department: Zoology

Name of the Teacher: Assistant Professor Dharminder Singh Uttam

Name of the Course: DSC 1C: **Physiology and Biochemistry** (ZOOL 201 TH)

DSC 1D: **Genetics and Evolutionary Biology** (ZOOL 202 TH)

Month	Weeks	Book/ Unit/Topic	Teaching Method / Resources	Student Activities
July		Unit (ZOOL 201 TH)	Lecture	Assignments
	1st	1. Nerve and Muscle		
	2 nd	2. Digestion		Class Test
	3 rd	3. Respiration		
	4 th	Class Test		
August			Lecture	Discussion
	1st	4. Excretion		
	2 nd	5. Cardiovascular System		
	3 rd	6. Reproduction and Endocrine Glands		
	4 th	Discussion		
September			Lecture	Quiz
	1st	7. Carbohydrate Metabolism		
	2 nd	8. Lipid/ 9. Protein Metabolism		
	3 rd	10. Enzymes		
	4 th	Quiz		
October		Unit (ZOOL 202 TH)	Lecture	Students presentations
	1st	1. Introduction to Genetics		
	2 nd	2. Mendelian Genetics		
	3 rd	3. Linkage, Crossing over and Chromosomal mapping		
	4 th	Students presentations		

November	1st	4.Mutations/ determination	5.Sex	Lecture	Group Discussion
	2nd	6.History of life/ Introduction to Evolutionary theories			
	3rd	8.Direct evidences of Evolution			Assignments
	4th	Assignments			
December	1st	9.Processes of Evolutionary change		Lecture	Quiz
	2nd	Mid –Term Exams			
February	2nd	10.Species concept		Lecture	Students presentation
	3rd	11.Macro- Evolution/12.Extinction			
	4th	Students presentation			

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Teaching Plan for BSc Zoology Second Year (SEC Courses)

Name of the Department: Zoology

Name of the Teacher: Assistant Professor Dharminder Singh Uttam

Name of the Course: **SEC I MEDICAL DIAGNOSTICS (ZOOL 203 TH)/ SEC II: APICULTURE (ZOOL 204 TH)**

Month	Weeks	Book/ Unit/Topic	Teaching Method / Resources	Student Activities
July		Unit (ZOOL 203 TH)	Lecture	Class Test
	1 st	1.Introduction to Medical Diagnostics and its Importance / 2. Diagnostics Methods Used for Analysis of Blood		
	2 nd	do		
	3 rd	do		
	4 th	Class Test		
August			Lecture	Discussion
	1 st	3.Diagnostic Methods Used for Urine Analysis		
	2 nd	4.Non -infectious Diseases		
	3 rd	do		
	4 th	Discussion		
September			Lecture	Quiz
	1 st	5.Infectious Diseases / 6.Tumours		
	2 nd	do		
	3 rd	do		
	4 th	Quiz		

October		Unit (ZOOL 204 TH)	Lecture	Students presentations
	1st	1. Biology of Bees		
	2nd	do		
	3rd	2.Rearing of Bees		
	4th	Students presentations		
November	1st	2.Rearing of Bees	Lecture	Group Discussion
	2nd	do		
	3rd	3.Diseases and Enemies		Assignments
	4th	Assignments		
December	1st	3.Diseases and Enemies	Lecture	Quiz
	2nd	Mid –Term Exams		
February	2nd	4.Bee Economy	Lecture	Students presentation
	3rd	5.Entrepreneurship in Apiculture		
	4th	Students presentation		

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Teaching Plan for BSc Zoology Third Year (DSE Courses)

Name of the Department: Zoology

Name of the Teacher: Assistant Professor Dharminder Singh Uttam

Name of the Course: **DSE 1A Applied Zoology (ZOOL 301 A TH)**

DSE 1B: Insect, Vectors and Diseases (ZOOL 302 A TH)

Month	Weeks	Book/ Unit/Topic	Teaching Method / Resources	Student Activities
July		Unit (ZOOL 301 A TH)	Lecture	Class Test
	1st	1.Introduction to Host-parasite Relationship /2.Epidemiology of Diseases		
	2 nd	3.Rickettsiae and Spirochaetes		
	3 rd	4.Parasitic Protozoa		
	4 th	Class Test		
August			Lecture	Discussion
	1st	5.Parasitic Helminthes		
	2 nd	6.Insects of Economic Importance		
	3 rd	do		
	4 th	Discussion		
September			Lecture	Quiz
	1st	7.Insects of Medical Importance		
	2 nd	8.Animal Husbandry		
	3 rd	9.Poultry Farming		

		/10.Fish Technology		
	4 th	Quiz		
October		Unit (ZOOL 302 A TH)	Lecture	Students presentations
	1st	1.Introduction to Insects		
	2nd	2.Insects as Vectors		
	3 rd	3.Dipteran as Disease Vectors		
	4th	Students presentations		
November	1st	3.Dipteran as Disease Vectors	Lecture	Assignments
	2 nd	do		
	3rd	do		
	4th	Assignments		
December	1 st	4.Siphonaptera as Disease Vectors	Lecture	
	2nd	Mid –Term Exams		
February	2 nd	5.Siphunculata as Disease Vectors	Lecture	Students presentation
	3 rd	6.Hemiptera as Disease Vectors		
	4th	Students presentation		

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Teaching Plan for BSc Zoology Third Year (SEC Courses)

Name of the Department: Zoology

Name of the Teacher: Assistant Professor Dharminder Singh Uttam

Name of the Course: **SEC III: SERICULTURE (ZOOL 303 TH)**

SEC IV: AQUARIUM FISH KEEPING (ZOOL 304 A TH)

Month	Weeks	Book/ Unit/Topic	Teaching Method / Resources	Student Activities
July		Unit (ZOOL 303 TH)	Lecture	Class Test
	1st	9. Introduction		
	2 nd	do		
	3 rd	2. Biology of Silkworm		
	4 th	Class Test		
August			Lecture	Discussion
	1st	3. Rearing of Silkworms		
	2 nd	do		
	3 rd	do		
	4 th	Discussion		
September			Lecture	Quiz
	1st	4. Pests and Diseases		
	2 nd	do		
	3 rd	5. Entrepreneurship in Sericulture		
	4 th	Quiz		
October		Unit (ZOOL 304 A TH)	Lecture	Students presentations
	1st	1. Introduction to Aquarium Fish Keeping		
	2 nd	do		

	3 rd	2.Biology of Aquarium Fishes		
	4 th	Students presentations		
November	1 st	2.Biology of Aquarium Fishes	Lecture	Group Discussion
	2 nd	do		
	3 rd	3.Food and feeding of Aquarium fishes		Assignments
	4 th	Assignments		
December	1 st	3..Food and feeding of Aquarium fishes	Lecture	Quiz
	2 nd	Mid –Term Exams		
February	2 nd	4.Fish Transportation	Lecture	Students presentation
	3 rd	5.Maintenance of Aquarium		
	4 th	Students presentation		

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