Syllabus of Theory

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		Part A - Introd	luction	\$6.00°
Program: Honors/Research		Class: B.Sc.	Year: IV	Session: 2024-2025
		Subject: ZOO	LOGY	
1	Course Code	S4-ZOOL2D		
2	Course Title	Museology and Taxidermy		
3	Course Type	DSE TH-2		
4	Prerequisite	To study this course student must have had the subject zoology in B.Sc. III year/Degree		
5	Course Learning Outcomes (CLO)	Upon completion of 1. Understand how 2. Understand the second 3. Learn the proces 4. Learn the technic 5. Know about experience Curator, Museus Keeper.	f the course student to establish and m significance of mus lure of taxidermy ques of preparing A mployment oppor	aintain an animal museum. eums. dizarin Skeletal Staining. tunities as Taxidermist, echnician and Museum
6	Credit Value	The second secon	3	axidermy.
7	Total Marks	Max.Marks:		Min. Passing Marks: 35

Dr. Shampa Jain.

Ms. Amita Saxena. (As. L. S. MARMAR)

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Part B - Content of the course

Total No. of Lectures-Tutorials-Practical (2 hours per week)

LTP: Total Number of Lectures: 45

Unit/ S.No.	나는 그 그 이 이 집에 하시다. 그는 그는 그는 그는 그들은 그리고 살아 그리고 아니를 살아 내려가고 있는 지수를 가고 있다.	No. Of Lectures (1 Hour Each)
	Establishment of Museum	CI TIOUI Laving
	1. Concept, Development and Types of Museums 1.1. Definition, History, Scope and Significance of Museum	
× _	2. Characteristic features of Ideal Museum	
	3. Collection of Animals, Methods:	
	3.1. Catching by hand 3.2. Netting	
	3.3. Digging and Draining	
I	3.4. Trapping	
	3.5. Shooting	10
	4. Collection and Preservation Techniques for Invertebrate Animals (except insects): Protozoans, Sponges, Coelenterates, Worms, Annelids, Arthropods, Molluscans and Echinoderms.	
	5. Collection and Preservation Techniques for Vertebrate Animals (except fishes): Amphibians, Reptiles, Aves and Mammals. Keywords: Museum, Preservation, Invertebrates, Vertebrates, Trapping, Shooting,	
	Mounted Specimen	
	Collection, Preservation and Embalming	
	1. Collection and Preservation of Insects: Collecting Net, Sieve, Aspirator, Traps, Berlese Funnel, Killing Bottles, insect keep in paper folds, Relaxing, Pinning, Spreading, Insect Box	
II .	1.1. Proper placement of insects	10
	1.2. Protection of insects	10
9	2. Collection and Preservation of Fishes	\supset
	2.1. Collection Methods: Fishing without any gear and only by hands, Wounding the fishes by gears, Superfying method, Line fishing	22.01.24

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	(Angling), By fish screen, Fish trap, Dipnet or Lift net, Cost net or		
	Ghagria net, Purse net (Kharki net and Shangla net), Gill net, Drag net		
	2.2. Preservation Techniques: Cleaning, Gutting, Drying, Refrigeration,		
	Deep freezing, Chemical Preservation.		
	3. Embalming	le real	
	4. Injecting		
	Keywords: Injecting, Insects, Embalming, Angling, Aspirator, Purse net		
	Taxidermy		
	1. Definition, History, Scope and Significance of Taxidermy		
	2. Protection and Storage of Animal before Taxidermy		
	3. Types and Process of Taxidermy		
	4. Rogue Taxidermy		
	5. Anthropomorphic Taxidermy	10	
	6. Conservation and Restoration of Taxidermy		
	7. Taxidermy of Birds/Mammals		
	Keywords: Taxidermy, Skin mount, Freeze-dry mount, Reproduction mount,		
	Stuffing, Anthropomorphic		
	Preparation of Skeleton and Fixatives, Stains and Reagents		
	1. Preparation of Skeleton		
	1.1. Steps: Skinning, Removal of soft organs, Removal of muscles,		
	Disarticulation, Cleaning, Bleaching, Curing, Polishing and		
	Preservation		
7	1.2. Maceration: A bone preparation technique	- 1	
	1.3. Alizarin Skeletal Staining		
	1.4. Conservation and Restoration of Bone, Horn and Antler objects	15	
	2. Labelling		
	2.1. Labelling and Marking kit		
6,000			
	3. Cataloging		
	3.1. Purpose Of Cataloging		
	3.1. Purpose Of Cataloging	Duc.	مسلستعم
	3.1. Purpose Of Cataloging 4. Display: Arrangement of specimens and slides	Deni Seri	

 Keywords: Staining, Cataloging, Skeleton, Alizarin, Maceration, Fixatives, Reagents

Part C - Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- 1. Alexis Turner: "Taxidermy": Thames and Hudson.
- 2. Dalela R.C. & Sharma R.S. "Animal Taxonomy & Museology" JP Nath & Company Meerut
- 3. Nadine H. Roberts: "A Complete Handbook of Taxidermy": Tab books
- 4. Roger J. Lincoth & J Gordon Sheals, "Invertebrate Animals Collection & Preservation"; Cambridge university Press
- 5. Anderson Rudolph "Methods of collecting & Preserving vertebrate Animals"; Read Books.
- 6. Azhagu Madhavan; "Collection & Preservation of Insects;" Notion Press
- 7. Swarup N., Arora S. and Pathak S.C, "laboratory techniques in Modern Biology" Kalyani Publication New Delhi

Suggested e-Resources:

- 1. https://www.britannica.com/science/taxidermy
- 2. https://www.biologydiscussion.com/zoology/practicals/how-to-prepare-skeleton-of-animals-zoology
- 3. https://www.funeralguide.co.uk/help-resources/arranging-a-funeral/funeral-guides/what-is-embalming
- 4. https://www.britannica.com/topie/museum-cultural-institution
- 5. https://en.wikipedia.org/wiki/Taxidermy
- 6. https://www.vlab.co.in

Suggested Continuous Evaluation Method Maximum Marks: 100	ls :	
Continuous Comprehensive Evaluation (CC	E): 30 Marks University Exam (UE): 7	0 Marks
Internal Assessment : Continuous Comprehensive Evaluation (CCE)	Class Test, Assignment / Presentation	30
External Assessment:	Section (A): Very Short Questions	
External Assessment.		
University Exam Section	Section (B): Short Questions	70

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Syllabus of Practical

		Part A - Introdu	ction	
Program: Honours/Research		Class: B.Sc.	Year: IV	Session: 2024-2025
		Subject: ZOOLO	OGY	1.19
1	Course Code	S4-ZOOL2Q	N. A.	
2	Course Title	Museum Keeping and	axidermy week	
3	Course Type	DSE PR-2		
4	Prerequisite	To study this course stud III year/Degree	lent must have had th	ne subject zoology in B.Sc.
5	Course Learning Outcomes (CLO)	Upon completion of the 1. Understand how to 2. Understand how to	establish and maintai	
		stains and reagents 5. Know about empl Museum Maintenar	es of preparing useful oyment opportunitience Technician and M	chemicals such as fixatives s as Taxidermist, Curator fuseum Keeper.
6	Credit Value	6. Get self-employme	an in the held of taxi	acimy
7	Total Marks	Max,Mai	ks: 100	Min. Passing Marks: 3

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Any Remarks / Suggestions: Madera (D1. U.S. PARMAR)

Part B - Content of the course Total No. Of Lectures-Tutorials-Practical (1 hours per week)

LTP: Total Number of Lectures: 15

Unit/	Topics	Lecture
S.No.		(2 Hours Each)
I	Collection, Preservation, Curation and Identification of animals	02
П	Preparation and Identification of Nets and Gears	01
III	Identification and Labelling of Collected animals (locally available)	01
IV	Preparation of permanent slide - Locally available small organisms (Invertebrates)	01
V	Preparation of basic fixatives, stains and reagents	
VI	Observe and understand the procedure of Taxidermy through YouTube /videography	02
VII	Observe and understand Bird Skeleton / Mammal Skeleton Preparation through YouTube/videography	01
VIII	Alizarin Skeletal Staining	
IX	Preparation of Insect Box with Preserved Insects, 5 Permanent Slides and 5 Preserved Specimens	
X	Physical/Virtual visit to Animal Museum	01

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Keywords: Taxidermy, Stains, Fixatives, Reagents, Skeleton Preparation, Alizarin

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Note:- UGC guidelines should be followed for collection of animals (Dr. L. S. PARMAR)

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Part C - Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

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- 7. Swarup N., Arora S. and Pathak S.C, "laboratory techniques in Modern Biology" Kalyani Publication New Delhi

Suggested e-Resources:

- 1. https://www.britannica.com/science/taxidermy
- 2. https://www.biologydiscussion.com/zoology/practicals/how-to-prepare-skeleton-of-animals-zoology
- 3. https://www.funeralguide.co.uk/help-resources/arranging-a-funeral/funeral-guides/what-is-embalming
- 4. https://www.britannica.com/topic/museum-cultural-institution
- 5. https://en.wikipedia.org/wiki/Taxidermy
- 6. (https://www.vlab.co.in

Part D - Practical Assessment elaboration			
Internal Assessment	Marks	External Assessment	Marks
Class Interaction / Quiz		Viva Voce	
Attendance		Practical Record File	
		Table work / Experiment	
Assignment (Chart / Model / Rural Service / Technology Dissemination / Report of Excursion / Lab visit / Survey / Industrial training)			
	30		70

Note:- UGC guidelines should be followed for collection of animals

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