



# बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

School of Science

B.Sc. (Zoology) Programme

SUBJECT Code & Name: - BS03MDZOO1 Economic Zoology

## Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme			
Credits				Component Weightage (%)			
				CCE		SEE	
L	T	P	Total	TH	PWE	TH	PWE
3	0	1	4	35	15	35	15

Programme Name	B.Sc. (Zoology)
Semester	III
Course Code	BS03MDZOO1
Course Title	Economic Zoology
Course Content Type(Th./Pr.)	Theory & Practical
Course Credit	4
Sessions+ Lab. Per Week	3+2
Total Teaching/Lab. Hours	45 Theory Hours + 30 Practical Hours
* 2 Laboratory = 1 Session	

## Learning Objectives

Students will able to study

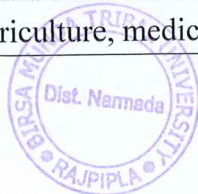
1. Understanding the Economic Importance of Animals.
2. They will learn about the principles of animal husbandry and sustainable animal production practices.
3. Focus on how animal benefit or harm humans in economic ways.
4. Learning about the value of wildlife in tourism, conservation and other sectors.

## Prerequisites (if any)

## Learning Outcomes

On the Completion of this course, students will able to:

1. Students will study the economic significance of animals in agriculture, fisheries, apiculture and sericulture.
2. Understand breeding, nutrition, disease, control and sustainable practices in animal rearing.
3. Explain the economic role of wild animals and their conservation status.
4. Explain how animals contribute to agriculture, medicine, industry, and ecosystem services.







# बिरसा मुंडा ट्रायबल युनिवर्सिटी

## Birsa Munda Tribal University

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

### School of Science B.Sc. (Zoology) Programme

Detailed Contents		
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS
I	<p><b>Poultry Science:</b></p> <ul style="list-style-type: none"><li>• Importance of poultry science.</li><li>• Poultry breeds: American breed (Polymouth rock), Mediterranean breed (White leghorn), Asiatic breed (Brahmas), Kadaknath.</li><li>• Poultry houses: Necessity, Location and Types of roofs.</li><li>• Poultry equipments: Incubators, Waterers, Feeders, Brooders.</li><li>• Gradation and preservation of eggs.</li><li>• Poultry diseases: Symptoms, treatment and presentations of Rani khet, Pullorium and Fowl pox.</li></ul> <p><b>Vermiculture:</b></p> <ul style="list-style-type: none"><li>• Definition of Vermiculture and Vermicomposting</li><li>• Vermi breeds: Red Wiggler Worms (<i>Eisenia fetida</i>) and Redworms (<i>Lumbricus rubellus</i>).</li><li>• Vermi culture process</li><li>• Advantages and disadvantages of Vermicomposting.</li></ul>	15
II	<p><b>Apiculture:</b></p> <ul style="list-style-type: none"><li>• Species of Honey Bees</li><li>• Social Organization of Honey Bee</li><li>• Life History</li><li>• Methods of Bee Keeping</li><li>• Economic importance of Honey and Wax</li></ul> <p><b>Sericulture:</b></p> <ul style="list-style-type: none"><li>• Species of Silkworm</li><li>• Life History of Mulberry Silkworm</li><li>• Spinning and Rearing</li><li>• Economic importance of Silk</li></ul>	15







# बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsā Munda Tribal University

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

## School of Science B.Sc. (Zoology) Program:me

III	<b>Fisheries:</b> <ul style="list-style-type: none"><li>• Prawn fisheries (types and culture of prawns)</li><li>• Fish Culture</li><li>• Management of Fish Pond</li><li>• Induced Breeding</li><li>• Fish preservation and processing</li><li>• By-products of Fishing Industry</li><li>• Edible fresh water fishes</li><li>• Economic importance of fisheries.</li></ul>	15
-----	--	----

### Practical

1. To study Poultry breed.
2. To study Poultry house and Poultry appliances.
3. To study Fish byproduct.
4. To study Vermi culture process.
5. To study Methods of Bee Keeping.
6. To study Spinning and Rearing
7. To study Edible fresh water fish.

### Reference Books

1. Economic Zoology..... Shukla and Upadhyay
2. Saras Publication Economic Zoology.....N. Arumugam
3. Economical Zoology..... Dr. Shivanand M. Gotyal
4. Nirav College Zoology 101..... Mihir B. Suthar and Haresh G. Patel
5. Venkitaraman : Economic Zoology (Sudarshana Publishers)
6. Economic Zoology, Sarkar, kundu & Chaki, New Central Book Agency(P) Ltd. New Delhi
7. मत्स्य व्यवसाय विज्ञान, प्रा .निरंजन डी. छाया ., प्रथम आवृत्ति १९८०, गुजरात ग्रंथ निर्माता बोर्ड, गुजरात राज्य

### Web Resources

<https://www.vedantu.com/biology/apiculture-beekeeping>

**L::** Lecture, **T::** Tutorial, **P::** Practical

**CCE::** Continuous and Comprehensive Evaluation

(CCE Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar, Reflective notes, class participation, case analysis and presentation, slip tests (announced/ surprised), attendance etc. or any combination of these)

**PWE::** Practical Work Examination (PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

**SEE::** Semester End Evaluation

