

Programme/Class: Masters		Year: First	Semester I/II
SUBJECT: ZOOLOGY			
Course Code: ZME101T		Course Title: Applied Zoology ( <b>Minor Elective</b> )	
Course Outcomes: After completion of this course the students of faculty other than zoology will be able to- <ul style="list-style-type: none"> <li>• Understand the causes and modes of transmission of common diseases.</li> <li>• Set up aquarium and keep ornamental fish.</li> <li>• Understand the technique of Bee Keeping and harvesting of honey.</li> <li>• Understand the technique of pearl culture.</li> <li>• Gain knowledge about Vermiculture.</li> <li>• Gain knowledge about Leather and Dairying</li> </ul>			
Credits: 2		Minor Elective	
Max. Marks: 25+75		Min Passing Marks:	
Total no. of lectures-tutorials-practical (in Hours/week) L-T-P: 4-0-0			
Unit	Topic	Total No. of Lectures= (60 T)	
I	1. Transmission, symptoms and control of Dengue and Covid 2. Life cycle, pathogenicity and control of parasites: Ascaris and Taenia	15	
II	3. Aquarium Keeping: Equipments and accessories, Ornamental fish and problems of fish tank. 4. Pearl culture: pearl producing molluscs, pearl formation and pearl culture technique	15	
III	5. Apiculture: Apiary, Bee keeping and its products 6. Vermiculture.	15	
IV	7. Animal based industry – processing and products 7.1 Leather industry 7.2 Dairying industry	15	
Suggested Readings: <i>Books Recommended</i> 1) Economic Zoology- Shukla and Upadhaya 2) Economic Zoology- P. D. Srivastava 3) Economic Zoology- Manju Yadav 4) Economic Zoology- K. R. Ravindranathan 5) Textbook of Economic Zoology- P. R. Venkitaraman 6) Introduction to Parasitology with special reference to parasite of man by - Asa C. Chandler 7) Agricultural Pest of India and South East Asia by- A.S. Atwal			
This course can be opted as a minor elective by students of faculty other than Zoology			
Suggested continuous evaluation methods: <ul style="list-style-type: none"> <li>• Test/Quiz (10 Marks)</li> <li>• Assignment/Presentation/Seminar (10 Marks)</li> <li>• Class performance/Participation (05 Marks)</li> </ul>			
Course Prerequisites: To study this course a student must not have opted Zoology as major in Bachelor (Research) Program. Student from other faculty may opt this course as minor elective during Bachelor (Research) Program.			

**Suggested equivalent online course:**

1. <https://www.classcentral.com/course/swayam-applied-and-economic-zoology-20222>
2. [https://onlinecourses.swayam2.ac.in/cec20\\_ge23/preview](https://onlinecourses.swayam2.ac.in/cec20_ge23/preview)
3. <https://vikaspedia.in/agriculture/fisheries>
4. <https://leatherpanel.org/e-learning>
5. [https://onlinecourses.swayam2.ac.in/nos22\\_ge02/preview](https://onlinecourses.swayam2.ac.in/nos22_ge02/preview)
6. <https://www.cdc.gov/dengue/training/cme.html>
7. [https://www.coursera.org/learn/covid-19-what-you-need-to-know?irclickid=2e42xr22QxyNTji0F%3ATQs1tkUkDUAnX0K04pxI0&irgwc=1&utm\\_medium=partners&utm\\_source=impact&utm\\_campaign=259799&utm\\_content=b2c](https://www.coursera.org/learn/covid-19-what-you-need-to-know?irclickid=2e42xr22QxyNTji0F%3ATQs1tkUkDUAnX0K04pxI0&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=259799&utm_content=b2c)

Further Suggestions: None



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