

Lecture Plan																	
Name of the College: Government College of Arts, Science and Commerce. Sanquelim- Goa																	
Name of Faculty: Dr. Suphala Pujari	Subject: Zoology																
Paper code: ZOO 143 (Theory)	Program: F. Y. BSc			Division: A													
Academic year: 2025- 2026	Semester: II			Total Lectures: 15 hrs.													
Course Objectives: <ol style="list-style-type: none"> 1. Understand the basic principles of aquarium fish keeping, including water quality, filtration, and habitat requirements. 2. Outline the techniques of rearing /maintaining fishes in an aquarium. 3. Identify the requirements for an Aquarium fabrication. 4. Examine strategies for disease prevention, quarantine procedures, and treatment options for sick fish. 																	
Expected Course Outcome: <p>At the end of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the biology of aquarium fishes, their nutritional requirements and care. 2. Identify the requirements for setting up and maintenance of an aquarium. 3. Evaluate aquarium fish diseases based on common symptoms. 4. Demonstrate construction of an aquarium set-up. 																	
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books										
December	01/12/2025	06/12/2025	1	Introduction: Definition of an Ornamental fish, aquarium, Aquaculture and Aquarists. Benefits of Aquarium Fish Keeping,		PPT	<ul style="list-style-type: none"> • V. G. Jhingran, Fish and Fisheries of India. 										

December	08/12/2025	13/12/2025	1	Types of Aquarium fishes (Exotic, Endemic and indigenous species; Fresh water& Marine water aquarium fishes;		PPT	Hindustan Publishing Co., 1991.
December	15/12/2025	20/12/2025	1	Surface feeders, Column feeders, Bottomfeeders; Carnivores, Omnivores, Herbivores with two examples of each type		PPT	• J. D. Jameson, and R. Santhanam. Manual of ornamental fisheries and farming technology. Fisheries College and Research Institute, Thoothukudi, 1996.
December	22/12/2025	23/12/2025	1	Importance of Aquarium Plants			
January	02/01/2026	03/01/2026	1	Types of Aquaria		PPT	
January	05/01/2026	10/01/2026	1	Factors need to consider when selecting Aquarium Fish: Water and Water parameters required; Size of the fish and the fish tank; compatibility (water conditions, behavioural patterns, food requirements and feeding habits; Health of the fish, Aquarium equipment)		PPT	• J. E. Baradach, J. H. Ryther, and W.O. McLarney, Aquaculture: The Farming and Husbandry of Freshwater and Marine Organisms. NewYork: Wiley Interscience, 1972.
January	12/01/2026	17/01/2026	1	Ornamental fish transportation.		PPT	
January	19/01/2026	24/01/2026	1	Types of fish feed (Artificial and Live)		PPT	
January	26/01/2026	31/01/2026	1	Types of fish feed (Artificial and Live)		PPT	
February	02/02/2026	07/02/2026	1	Common aquarium fish diseases		PPT	
February	09/02/2026	14/02/2026	1	Common aquarium fish diseases		PPT	
February	16/02/2026	21/02/2026	1	Common aquarium fish diseases		PPT	
February	23/02/2026	28/02/2026	1	Important points to be considered while choosing a place for aquarium set up: Sunlight, Accessibility, Noise, Visibility, Electrical Sockets, etc.		PPT	• M. Beazley, The complete guide to tropical aquarium fish care. London: Read and Consumes Book Ltd., 1998.
March	02/03/2026	07/03/2026	1	The potential scope of Aquarium Fish Industry as a Cottage Industry		PPT	
March	09/03/2026	14/03/2026	1	The potential scope of Aquarium Fish Industry as a Cottage Industry		PPT	
March	16/03/2026	21/03/2026	1	The potential scope of Aquarium Fish Industry as a Cottage Industry		PPT	• R. K. Rath, Freshwater Aquaculture. India: Scientific Publishers, 2000.
March	23/03/2026	28/03/2026	1	Revision		PPT	
March	30/03/2026	31/03/2026	1	Revision		PPT	