

COLLEGE OF FISHERIES, KISHANGANJ

BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA

Lecture Plan

Course code: AAH-510

Course Title: Aquatic Wildlife Health

Credit hrs: 2 (2+0)

Program: M.F.Sc.

Assigned Teacher: Mr. Pankaj Kumar

Theory	
Topics	No. of Classes
1. Introduction to aquatic wildlife	1
2. Definition, diversity: cetaceans, Crocodilians, Sea turtles, Frogs,	2
3. Sea lions, Seals, Sea otters, Insects, Birds	1
4. Principles on One World and One Health	2
5. Aquatic wildlife habitats; Ecosystem health;	2
6. Aquatic ecosystem health indicators;.	1
7. Aquatic wildlife-related recreations; recognizing and preventing the impacts of principal stressors	2
8. Examples and role of aquatic invasive species in the transfer of exotic pathogens	1
9. Prevention and spread of invasive species.	1
10. Diseases of amphibians; Infections with non-hyphal parasitic chytrid fungi Batrachochytrium dendrobatidis and B. salamandrivorans, and ranavirus species	2
11. Disease issues in aquatic wildlife; Monitoring of diseases in aquatic wildlife;.	2
12. Infectious (viral, parasitic, bacterial) and non-infectious diseases (malnutrition, toxic algae poisoning, gunshots, boat strikes, shark bites) of aquatic wildlife.	2
13. Entanglement in ocean trash; Disease reporting in dead aquatic wildlife; Aquatic wildlife die-offs; Fish kills and the causes; Handling of dead aquatic animals;	2
14. Clean up; Carcass disposal and disinfection procedure; zoo and aquaria medicine.	1
15. Effect of anthropogenic factors and contaminants on aquatic wildlife.	1
16. The zoonotic potential of aquatic wildlife diseases; Aquatic wildlife rehabilitations	2
17. Health management issues in game fish, Fish ranging, etc	2
18. Health management of free-ranging aquatic wildlife populations	1
19. The impact of global change on the health of aquatic and marine wildlife populations.	2
Total no of classes:	30



Course Instructor (Mr. Pankaj Kumar)