

College of Fisheries, Kishanganj
Bihar Animal Sciences University, Patna
Lecture Plan (M.F.Sc. 2nd Sem, Batch: 2025)

Course Title: Epidemiology and Disease Surveillance

Course code & Credit Hours: AAH-509; 2 (1+1)

Course Assigned: Dr. Pushpa Kumari

Theory Classes		
Sl. No.	Topics	No. of Classes
1.	Introduction to epidemiology and concepts: Epidemiological terms, its Concepts and types.	1
2.	Importance of aquatic animal diseases, Patterns of disease-epidemic curves	1
3.	Epidemiological view of causality and Epidemiological associations	1
4.	Disease diagnosis and levels of diagnosis	2
5.	Disease surveillance, Purpose and objectives of surveillance, approaches to surveillance Principles of active and passive surveillance	1
6.	Sampling Principles and applications: Principles of data and specimen collection, collections of information from people	2
7.	Survey design and planning	1
8.	Prevalence, Production and Incidence rate surveys	1
9.	Surveillance data management: Principles and data processing, computerized and manual data management	1
10.	Epidemiological software for data analysis	1
11.	Strategic plan for aquatic animal health: Aquatic animal health information systems; National and regional strategic plan for aquatic animal health	1
12.	National and international disease reporting: Role of NBFGR, NACA, FAO, OIE, AQUAPLAN, etc., in disease reporting	2
13.	Emergency disease preparedness	1
Total Number of classes		16
Practical Classes		
1.	Development of questionnaire on farm survey for fish diseases	1
2.	Development of questionnaire on farm survey for shrimp diseases	1
3.	Fish Farm survey (Nearest) for diseases	4
4.	Collection of active data on fish diseases	2
5.	Collection of passive data on fish diseases	2
6.	Data entry and data processing	3
7.	Use of epidemiological software for data analysis	3
Total Number of classes		16

Signature of Course Instructor:



Name of Course Instructor: Dr. Pushpa Kumari