

COLLEGE OF FISHERIES, KISHANGANJ
BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA

Lecture Plan

Course Title: Larval Nutrition and Live Feed Production, AQC-508 (1+1)

Theory

Sl. No.	Course Title	No. of Lectures
1.	Nutritional requirements of finfish and shellfish larvae, Nutritional quality of commonly used live feed	2
2.	Comparison of live feeds against the prepared feeds, Nutritional disorders in larvae, Larval feeds utilization and advantages.	2
3.	Formulation and preparation of artificial feeds for larval rearing: Micro particulate diets, Particulate and microencapsulated diets, High energy feeds, energy sparing nutrients in larval feeds.	3
4.	Important live feeds and their biological features, Identification of new live feeds. Live feed use in different forms, Advantages and disadvantages.	2
5.	Important microalgae, rotifers, artemia, infusoria, cladocerans, copepods, oligochaetes, nematode and insect larvae.	4
6.	Bio-enrichment of live feed, Biofilm/periphyton and its use. Culture of single cell proteins and their nutritional quality	2
7.	Live feeds research in India, Around the world, new techniques developed in live feed use.	1
8.	Quality determination and cost benefit analysis, Production methods for different micro feeds, lab analysis of quality.	2
	Total No. of Lectures	18

Practical

Sl. No.	Course Title	No. of Lectures
1.	Collection, identification and isolation of live feed using various techniques	2
2.	Preparation of various culture media	2
3.	Preparation and maintenance of stock microalgal culture	2
4.	Preparation of formulated feeds for rearing finfish and shellfish larvae	1
5.	Mass culture of microalgae, cladocerans, copepods and rotifers	3
6.	Hatching of artemia and enrichment	1
7.	Culture of infusoria, earthworms and chironomid larvae	3
8.	Evaluation of different prepared feeds	2
	Total No. of Lectures	16

Course Teacher: Dr. Uday Kumar