

COLLEGE OF FISHERIES, KISHANGANJ
BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA

Class Schedule for M.F.Sc. 2nd Semester

FNT-511, Vitamin & Mineral Nutrition 2 (1+1)

Theory

Sl. No.	Topic	No. of Classes
1.	Unit I Vitamins: Classification and sources, properties and functions of water- and fat-soluble vitamins; Vitamin as co-enzymes and prosthetic groups of enzymes.	6
2.	Unit II Vitamin requirements and sources: Vitamin requirements of different species; dietary sources of vitamins; factors affecting vitamin requirements; Loss of vitamins during feed processing and storage.	6
3.	Unit III Vitamin deficiency: Manifestation of vitamin deficiency; Vitamin –mineral interactions. Hypo- and hyper-vitaminosis.	6
4.	Unit IV Minerals: Classification and sources, macro, micro minerals and heavy metals toxicity. Minerals requirements for different aquaculture species, dietary sources of minerals, factors affecting mineral requirement; nutrient-minerals interaction; Mineral-Mineral interactions; manifestation of mineral deficiency.	4
Total numbers of classes		22

Practical

Sl. No.	Topic	No. of Classes
1.	Estimation of zinc, phosphorus, magnesium, iron and vitamin A; preparation of vitamin and mineral premix; estimation of vitamin and mineral losses due to leaching.	11



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