

CORE COURSE XI – FISH NUTRITION AND FEED MANAGEMENT

Unit 1:

Larval nutrition and growth – digestive process, feeding behavior and its role in larval nutrition Nutrient requirement of larvae. Brood-stock nutrition – effect of dietary quality on reproductive out put and growth.

Unit 2:

Feeding cultivable species- appetite and satiation, factors influencing feeding behaviour, feeding practices in aquaculture weaning. Energetics – Gross Conversion efficiency, the effect of ration on growth.

Unit 3:

Feed in intensive aquaculture – feed development, feed ingredients. Feed types and uses – wet feeds wet and moist formulated feeds, dry feeds, commercial feed types. Feed handling and storage.

Unit 4:

Non-Nutrient diet components-anti metabolites, binders, accidental contaminants, aflatoxins, non-toxic dietary components –Fiber, Ash.Steroids and Steroid – like substances.

Unit 5:

Status of the aquaculture feed industry – Europe, Canada, Japan, Asia and India. Problems of the industry – reducing feed cost. Effect of feeds on the environment.

References:

1. S.S.De Silva and T.A.Anderson, 1995. Fish Nutrition in Aquaculture.
2. Stephen Goddard, 1996. Feed Management in aquaculture. Chapman and Hall, New York.
3. Kitab Mahal, 1999. A text books of fishery science and Indian fisheries, century printers, Allahabad.