

COLLEGE OF FISHERIES, KISHANGANJ
BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA
Lecture Plan/Schedule
Course Title: Developmental Biology of Finfish and Shellfish
Course No. FRM 507; 2(1+1)

Theory

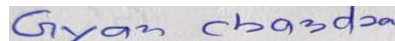
Sl. No.	Topic	No. of classes
1.	Fish eggs and larvae: Morphology and identification of eggs and larvae of commercially important fishes, morphometry	2
2.	Identification of eggs and larvae of commercially important crustaceans	1
3.	Identification of eggs and larvae of commercially important molluscs	1
4.	Identification of eggs and larvae of commercially important echinoderms	1
5.	Methods in fish egg and larval study: Quantitative sampling of fish eggs and larvae	1
6.	Spatial and temporal distribution, Dispersion of eggs and larvae	1
7.	Effect of environmental parameters on eggs and larvae and egg and larval dynamics	2
8.	Reproductive cycle in fish- Spawning	1
9.	Environmental cues- Recruitment assessment	1
10.	Natural food of commercially important finfish and shellfish larvae from egg to adult.	1
11.	Developmental biology of fish, Shellfish, sea urchin	2
12.	Stages of development- Cell fate and commitment, Embryonic induction	1
13.	Differentiation – Organogenesis- Morphogenetic movements	1
	Total no. of classes	16

Practical

Sl No.	Topic	No. of classes
1.	Morphometry of eggs and larvae of finfishes	1
2.	Morphometry of eggs and larvae of crustaceans	2
3.	Morphometry of eggs and larvae of molluscs	2
4.	Identification of eggs and larvae of commercially important finfishes	3
5.	Identification of eggs and larvae of commercially important crustaceans	2
6.	Identification of eggs and larvae of commercially important molluscs	2
7.	Quantitative sampling of finfish and shellfish larvae	1
8.	Food and feeding habits of larval stages of finfish	1
9.	Food and feeding habits of larval stages of crustaceans	1
10.	Food and feeding habits of larval stages of molluscs	1
	Total no. of classes	16



(Anjali Pushp)



(Gyan Chandra)