

Sl No.	Topic	No. of classes
Theory		
1.	Principles of taxonomy	01
2.	Nomenclature and type concept	01
3.	Classification and interrelationships	01
4.	Criteria for generic and specific identification	01
5.	Morphological, morphometric and meristic characteristics of taxonomic significance	01
6.	Major taxa of inland and marine fishes up to family level	08
7.	Commercially important freshwater and marine fishes of India and their morphological characteristics	
8.	Introduction to modern taxonomic tools	01
9.	Karyotaxonomy, DNA barcoding	01
10.	Protein analysis and DNA polymorphism	01
Practical		
1.	Collection, preservation and cataloguing of fishes for taxonomic study	01
2.	Study of different body forms in fishes	01
3.	External morphology of a typical bony fish, shark, skate and ray	01
4.	External morphology of fishes- types and modification of mouth, barbels, nostrils, fins and scales	01
5.	Morphometric measurements in a typical bony fish, shark, skate and a ray	01
6.	Meristic counts in fishes	01
7.	Identification of elasmobranchs (sharks, skates and rays)	01
8.	Identification of featherbacks, lady fishes and tarpons	02
9.	Identification of wolf herrings, shads, anchovies, ilishas and pellonas	02
10.	Identifications of carps, barbs, minnows, loaches and mahseers	03
11.	Identification of catfishes	03
12.	Identification of eels	01
13.	Identification of spiny eels and swamp eels	01
14.	Identification of full beaks, half beaks and flying fishes	01
15.	Identification of Bombay ducks and lizard fishes	01
16.	Identification of flat heads	01
17.	Identification of flatfishes	01
18.	Identification of pufferfishes and tripod fishes	01
19.	Identification of snakeheads, mackerels, seer fishes, tunas, threadfins, gobies	03
20.	Identification of mullets, barracudas, climbing perch and gouramies	01
21.	Identification of glass fishes, carangids, cichlids, sickle fishes, bat fishes, silver biddies, barramundis, pony fishes, snappers and moonfish	
22.	Identification of goat fishes, leaf fish, pink perchs, bull eyes, scats, groupers, croakers, whittings, pomfrets, tiger perchs, ribbon fishes, sucker fish and cobia	03
Total no. of classes		48