

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI

1	Name of syllabus	C.C.IN Bio-Floc fisheries technology (2019-2020)							
2	Course Code	305142							
3	Max. Nos. of student	25 student							
4	Duration	6 month							
5	Types	Part time							
6	Nos. of days/ week	6 Days							
7	Nos. of Hours/days	7 hrs.							
8	Space requirement	1) Class room – 200 sq ft 2) Lab-200 sq ft 3) Tanks Bio-floc- 2 – 4 tanks							
9	Entry qualification	8 th pass							
10	Objective of syllabus/ introduction	1) To understand and adopt Bio-floc technology 2) To learn installation and fabrication of tanks 3) To learn feeding schedule and floc maintenance 4) To understand disease in fishes 5) To learn harvesting and marketing							
11	Employment opportunity	- Employment as Bio-floc technicians - Self employment and central govn. Given subsidy for this business							
12	Teacher's Qualification	- M.F.Sc (Master in Fisheries Science) - B.F.Sc (Bachelor in Fisheries Science)							
13	Training system	Sr. No	Paper Code	Name of Subject	TH / PR	Hours	Max Marks	Min Marks	
		1	30514211	Bio-floc fish farming	TH-I	3 hrs.	100	35	
		2	30514212	Pre-stocking and Floc maintenance	TH - II	3 hrs.	100	35	
		3	30514321	Water analysis and Floc maintenance	TH-III	3 hrs.	100	35	
		4	30514322	Disease control and tank preparation and setup	PR-I	3 hrs.	100	50	
				TOTAL			600	255	

Theory syllabus for cage culture course	
Sr. no	Chapter
A	Bio-floc fish farming
1	Concept of fisheries
2	Aquaculture system
3	Cage culture system
4	Advantages of cage culture
5	Type of cages
6	Types of net
7	Cage fabrication
8	Site selection
9	Economics of cage culture
10	Anchoring of cages
11	Type of feed and feeding management
12	Sampling and importance of sampling
13	Disease control/ prevention measures
B	Pre-stocking and post harvesting
1	Indemnification of fish seed
2	Pre-stocking of seed / planning and medication
3	Transportation of seed
4	Stocking of seed/ counting and grading etc.
5	Nursery management
6	Water chemistry / analysis etc.
7	Harvesting planning
8	Post harvesting (icing, packing and grading, marketing etc.)

Practical syllabus for cage culture	
Sr. no	Practical's
A	Water analysis
1	DO
2	pH
3	Salinity
4	Hardness
5	Alkalinity
6	Ammonia etc.
7	Water transparency
B	Control measures in water quality management
C	Disease in fish and control measures
D	Cage fabrication and installation
B	Sampling feeding and cage measurement
1	Stocking of fish
2	Identification of good quality seed
3	Feed types and protein content
4	Sampling
5	Feeding and calculation of feeding
6	Record keeping
7	Harvesting and packaging etc.

Infrastructure required for the course Biofloc

Sr. no	Name	Amount INR
1	Class room	
2	Projector	15000
3	Water test kits	20000
4	Microscope	8000
5	Lab equipments	10000
6	Pro-biotic and medicines	15000
7	Secchi disk	4000
8	Bio-floc tanks	100000
9	Aerators	25000
10	Computers -5	100000
11	Table	30000
12	Chairs -30	45000
13	Marker white bord other	5000
	Total	377000/-