Syllabus For Fish Seed Grower (RPL)

Course Name	Fish Seed Grower (RPL)	
Sector	AGRICULTURE	
Course Code	AGR/2021/FISG/061	
Level	4 (RPL)	
Occupation	Fish Seed Grower	
Course Duration	Total Duration 70 Hrs (T-29 , P-41)	
Trainees' Entry Qualification	Class VIII Pass with 5 years experience in the relevant field	
Trainers Qualification	Bachelor degree in Fishery science/ Zoology/ Chemistry or equivalent	
	from a recognized University/ Board/ Institute with minimum 2 Years'	
	experience in Fisheries field.	

Structure of Course:

Module No.	Module name	Theory (Hrs)	Practical (Hrs)	Total (Hrs)
1	Introduction	5	5	10
2	Carry out seed production	20	30	50
3	Ensure Personnel Management	2	3	5
4	Ensure safety hygiene and sanitation practices For culture operations	2	3	5
	TOTAL	29	41	70

SYLLABUS:

Sl no	Revise Module (Proposed)	Key learning Outcomes	Equipment required
1	Introduction Theory Duration:	• Study the scope and importance of quality seed in increasing the fish production of the country and ensuring economic stability for the growers • Understand the role of a Fish Seed Grower and the progression pathways	Laptop, white board, marker, projector

Sl no	Revise Module (Proposed)	Key learning Outcomes	Equipment required
	5 hrs Practical Duration: 5 hrs	 Identify the commercially important fish species for seed rearing Familiarize with the Government schemes and policies of various related to fish seed growing 	
2	Carry out seed production Theory Duration: 20 hrs Practical Duration: 30 hrs	Ensure removal of insects, aquatic weeds, unwanted weed fishes and predators. Ensure proper liming and fertilization Ensure pond preparation as per requirement of the respective stages of seed to be grown, i.e., spawn to fry, frytofingerling (post larvae to juvenile in freshwater prawn) or fingerling to stunted juveniles Perform Brood Stock Management Select quality broodstock Ensure proper stocking and is being feed regularly with quality feed. Ensure maintenance of water level, fertilization schedules, periodic sampling for ascertaining gonadal development etc. Undertake fry production Prepare pond for stocking of spawn/larvae for fry production Ensure spawn is stocked in correct density and supplementary feed is provided, Undertake fingerling production Ensure stocking of fry in optimum density in cool hours and feeding is done as per the recommended schedule. Ensure recommended water level during culture period and provide periodic liming and fertilizers to maintain water quality. Ensure harvesting after 3 months of culture by small mesh drag net in cool hours Acclimatize before packing and transport for sale/ safe delivery Pack and Transport to long distances in oxygen filled polythene bags for grow out	Laptop, white board, marker, projector, Audio-visual aids, lime, chemical fertilizers rice bran, ground nut oil cake, diesel liquid soap, oxygen cylinder polythene bags, thick thread, conditioning hapa, breeding hapa, hatching hapa, bamboos, canvas bags, hand net, Synthetic hormones like, WOVA-FH, ovatide, pituitary gland, homonizen, balance for weighing in milligrams beaker, distilled Water, Syringes, needles balance for weighing big fishes, Sponge small hatchery drag net, fry net, watch glass.

Sl no	Revise Module (Proposed)	Key learning Outcomes	Equipment required
ПО	(110poseu)	culture.	
		 • Undertake hatchery operation • Ensure hatchery components like spawning pool, hatching pools, over head water tank is thoroughly cleaned, duck mouths are open, check valves are working and water pump is working. • Ensure mature brooders are brought to the hatchery in water filled canvas bags • Ensure males and females are kept separately in hapas in water filled spawning pools. • Ensure synthetic hormones/pituitary extract is injected in recommended doses at periodic intervals • Ensure injected brood fish is released in spawning pool, shower is running and water is coming to the pool from inlet and spawning pool is covered with net to prevent the escape of brood fish during spawning. • Ensure spawning and fertilization of fishes • Ensure collection of eggs after complete spawning • Ensure fertilized eggs are transferred to hatching pools at the required density • Ensure collection of spawn its transfer to nursery pond for fry production. • Ensure thorough cleaning of 	
		hatchery after every cycle.	
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3	Ensure Personnel Management	 Allocate the work and maintain records of the scheduled activities Ensure required inputs have been procured and transported to the site 	Laptop, white board, marker, projector, register, scale
	Theory Duration: 2 hrs.	and assessment has been done for requirement of labour each day • Ensure availability of skilled persons for hatchery operation activities like	
	Practical Duration: 3 hrs.	identification of matured male and female, their transport to hatchery, injecting hormones at right dose etc • Ensure necessary funds are available for day to day expenses. • Assess the capabilities of the workers and ensure periodic training on	

Sl	Revise Module	Key learning Outcomes	Equipment required
no	(Proposed)		
		different aspects	
		Maintain register for attendance and	
		daily wages, availability of diesel for	
		operation of water pump and generator	
		if electricity is not there, procurement	
		of diesel etc.	
4	Ensure safety	Maintain health & hygiene of seed	First aid box, Hand
	hygiene and	during transportation and at various	nets and cast nets,
	sanitation	stages of growth & maturity	Dip nets, Hand
	practices	• Ensure safety measures and upkeep	gloves, boots, Head
	For culture	of water bodies used in fish culture	gear, Apron, Fresh
	operations	Monitor the quality of the water	towel, Cotton.
		regularly	
		• Ensure thorough drying and cleaning	
	Theory Duration	of nets, hapas, hand nets, canvas bags,	
	2 hrs	spawning & hatching pools	
		Take necessary precautions to avoid	
	Practical Duration	disease outbreaks	
	3 hrs	• Ensure standard methods are	
		followed in case of any calamity.	
	Total duration of		
	course: 70 hrs		
	Theory: 29 hrs,		
	Practical: 41hrs.		