Title of course- Pearl culture technician				
Nodal Department of HEI to run course				
Broad Area/Sector-	Agriculture and Allied			
Sub Sector-	Economic Zoology			
Nature of course - Independent / Progressive	Independent			
Name of suggestive Sector Skill Council	Agriculture Skill Council of India			
Aliened NSQF level	Level 3			
Expected fees of the course –Free/Paid				
Stipend to student expected from industry				
Number of Seats				
Course Code	Credits- 03 (1 Theory, 2 Practical)			
Max Marks100 Minimum Marks				
Name of proposed skill Partner				
Job prospects-Expected Fields of Occupation where student will be able to	Pearl Culture Technician, Pearl Farm Owner			
get job after completing this course in				

Syllabus

Syllabu	IS				
Unit	Topics	General/ Skill component	Theory/ Practical/ OJT/ Internship/ Training	No of theory hours (Total-15 Hours=1 credit)	No of skill Hours (Total-60 Hours=2 credits)
I	Introduction	Study the importance of pearl culture as a source of economic activity in India. Understand the role of pearl culture technician and progression pathway. Identify species capable of producing pearl, its anatomy and theoretical base of surgical implantations, post-care and pearl culture operations	Understand the general discipline in training room (Do's & Don'ts), familiarization with participants, and their background.	2 hours	5 hours
П	Perform preparations for nuclear implantation	Methods and procedure of nuclear implantation for pearl oyster	 Ensure selection of suitable sites safe from hostile weather, predators, and availability of pearl producing oysters. Ensure fertilization schedule based on water and soil nutrient profile (in case of pond), natural food assessment of water. Perform acclimatization of freshwater oyster in 200 litre capacity tank. Ensure preparation of pearl culture units, small bags (12x12 cm) mesh net bags with multiple pockets, crates covered with mesh ne.t Perform preparation of nucleus of various sizes and images. Familiarization of trainees with surgical instruments and sterilization; and arrange proper place for surgery. Ensure yard facilities for pre and post-operative care units and also for cultivation of algae 	9 hours	40 hours

Perform sugical procedure for implantation. Ensure collection of healthy big oyster from properative unit and arrange them in water filled trays; ensure big oysters are key in separate trays. Perform preparation of graft from big oyster (donor) from the control of the contr	Perform surgical procedure for implantation. Fasure collection of healthy hig oyster from properative unit and arrange them in water filled trays; creamer big oysters are kept in reparate trays. Perform properative unit and arrange them in water filled trays; creamer big oysters are kept in reparate trays. Perform procedure trays. Perform procedure trays. Perform manufacture debugged to the control of t							
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the basis of size, shape, colour, lustre, quality Survey market demand for cultured pearls, price fixation, display of products in the exhibition to create awareness after value addition: (Necklace, pendants, toe rings, finger rings, bangles, designer pearls etc.) Perform proper data maintenance and documentation; put tags on each implanted oyster to know date of implantation and other details. Maintain personal hygiene by washing hands by soap or hand wash to prevent infection Ensure monitoring of health of pearl oyster by periodic sampling and maintain	
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hygienic condition of culture units, pre and post operative tanks • Ensure proper record keeping	

Suggested Readings: Southgate, C. Paul and Lucas, S. John. "The Pearl Oyster", Elsevier Publication, Amsterdam, The Netherland, 2008.

Suggested Digital platforms/ web links for reading-N.A.

Suggested OJT/ Internship/ Training/ Skill partner: N.A.

Suggested Continuous Evaluation Methods: Test/Quiz/Exam/Skill test

Course Pre-requisites:

- No pre-requisite required, open to all
- To study this course, a student must have the subject in class/12th/ certificate/diploma
- If progressive, to study this course a student must have passed previous courses of this series.

Suggested equivalent online courses: N.A.

Any remarks/ suggestions: N. A.

Notes:

- Number of units in Theory/Practical may vary as per need
- Total credits/semester-3 (it can be more credits, but students will get only 3credit/ semester or 6credits/ year
- Credits for Theory =01 (Teaching Hours = 15)
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)