Model Program Book

SEMESTER INTERNSHIP

Designed & Developed by

ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

PROGRAM BOOK FOR

SEMESTER INTERNSHIP

Name of the Student: Biddika. pavan

Name of the College: Government Degree College (men) Srikakulam

Registration Number: 2022001049012

Period of Internship: From: 12-12-22 To: 16-3-23

Name & Address of the Intern Organization Fishery Development office
ilisupuram, srikakulam

Ambedkar University

YEAR

An Internship Report on

Fisheries

(Title of the Semester Internship Program)

Submitted in accordance with the requirement for the degree of

Under the Faculty Guideship of

S. Ravibabu sir

(Name of the Faculty Guide)

Department of

Zoology, Government Degree college (men) srikakulam

(Name of the College)

Submitted by:

Beddika. Pavan

(Name of the Student)

Reg.No: 202200104 9012

Department of Zoology

(Name of the College)

Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education **https://apsche.ap.gov.in**

1. It is mandatory for all the students to complete Semester internship either in V Semester or in VI Semester.
2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.
3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements for transportation to reach the organization.
4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.
5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the people working in the organization and by consulting the supervisor attached to the interns.
6. While you are attending the internship, follow the rules and regulations of the intern organization.
7. While in the intern organization, always wear your College Identity Card.
8. If your College has a prescribed dress as uniform, wear the uniform daily, as you attend to your assigned duties.
9. You will be assigned a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.
10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:
    a. Data and Information you are expected to collect about the organization and/or industry.
    b. Job Skills you are expected to acquire.
    c. Development of professional competencies that lead to future career success.
11. Practice professional communication skills with team members, co-interns, and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
12. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to provide updates on your progress with work assignments.

Scanned with OKEN Scanner

13. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.
14. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
15. At the end of internship, you shall be evaluated by your Supervisor of the intern organization.
16. There shall also be evaluation at the end of the internship by the Faculty Guide and the Principal.
17. Do not meddle with the instruments/equipment you work with.
18. Ensure that you do not cause any disturbance to the regular activities of the intern organization.
19. Be cordial but not too intimate with the employees of the intern organization and your fellow interns.
20. You should understand that during the internship programme, you are the ambassador of your College, and your behavior during the internship programme is of utmost importance.
21. If you are involved in any discipline related issues, you will be withdrawn from the internship programme immediately and disciplinary action shall be initiated.
22. Do not forget to keep up your family pride and prestige of your College.

------<<@>>------

Scanned with OKEN Scanner

Student's Declaration

I, B. Pavan a student of Internship Program, Reg. No. 2022001849012 of the Department of Zoology College do hereby declare that I have completed the mandatory internship from 12-12-2022 to 16-3-2023 in Fisheries development (Name of the intern organization) under the Faculty Guideship of S. Ravi babu sir (Name of the Faculty Guide), Department of Zoology, Government Degree college (men) Srikakulam (Name of the College)

B. Pavan / 16-3-2023
(Signature and Date)

Official Certification

This is to certify that Bidelika Jasan *(Name of the student)* Reg. No. 20220010490112 has completed his/her Internship in Fisheries department *(Name of the Intern Organization)* on Fisheries *(Title of the Internship)* under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc (Em) in the Department of Zoology - Govt Degree college *(Name of the College)*.

This is accepted for evaluation.

Fisheries Development Officer
Dt.....
Srikakulam

(Signature with Date and Seal)
K. GANGADHARA RAO
E.I.D. No. 0104 104
Fisheries Development Officer
Srikakulam Dist

Endorsements

Faculty Guide

Head of the Department

Principal

Scanned with OKEN Scanner

Government of Andhrapradesh
Department of Fisheries.

Certificate from Intern Organization

This is to certify that B. Pavan (*Name of the intern*) Reg. No 20220010049012 of Govt. Degree college [men] (*Name of the College*) underwent internship in Department of fisheries (*Name of the Intern Organization*) from 12-12-2022 to 16-3-2023

The overall performance of the intern during his/her internship is found to be Very Good (Satisfactory/Not Satisfactory).

Fisheries Developement Officer
Dt...................
Srikakulam

Authorized Signatory with Date and Seal

K. GANGADHARA RAO
E.I.D. No:
Fisheries Development Officer
Srikakulam Dist

Acknowledgements

I would like to thank all those people who helped me in successful completion of my internship programme with deepest sensor of gratitude. I Acknowledge the inspiring guidence, positive critisism and encouragement rendered by respectable FDO sir through the period his investigation and preparation of the project, I am really indepted for his valid suggestions, advices and help in Collecting the project.

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

The Sustainable fisheries management project will be identify innovative -for Strengthening fisheries management the goal of fisheries management event is to produce Sustainable biological environment and Socioeconomic benefits from renewable aquatic resources. Resource conservation food production generation of economic wealth generation of reasonable income from fisheries, maintaining employment for fisheries, maintain viability of fishing. Communities. are main objectives of fishery management DO's and donts of fish culture selection and stocking of carps, introduction of some major crops.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

A. Introduction of the Organization
B. Vision, Mission, and Values of the Organization
C. Policy of the Organization, in relation to the intern role
D. Organizational Structure
E. Roles and responsibilities of the employees in which the intern is placed.
F. Performance of the Organization in terms of turnover, profits, market reach and market value.
G. Future Plans of the Organization.

Department of fisheries Srikakulam is located at Kamarajamma Street, Ilisipuram, Sklm, promotion and the development of fishing and fisheries and its associated activities including infrastructure development marketing, exports etc. welfare of fisherman and other fishes folk and strengthening of their livelihood are the main vision values of organisation, schemes included prime minister matsya Sampada Socio-economic welfare of fisheries and fish farmers by providing boats, nets, safety kits, nutritional support to fisherman families during fishing bans and lean periods.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

The Sustainable fishery management project, will be identify innovative, cost effective mechanisms for strengthening fishery management capacity in accord with strategic centers to management capacity in accord with strategic centers to modernize the role of public Sector in this we how learned about the pond management selection of shrimp fodder given to fish, record maintenance water quality of pond etc.. major carps include catla, rohu, mrigal and about their feeding habits and management capacity of secretariat of agriculture live stock, fisheries and food, particularly those testing quality salinity of water, skills acquired during project include management of fishes lab equipment of fishery department.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Pond preparation: The opt size pond is rectangular size	fish yield in pond can affected by various factors in Pond.	
Day - 2	Soil & water: The soil type of pond and its fertility is necessary	it controls pond stability, pH salin -ity of water	
Day - 3	aquatic weeds: they not only take away nutrients but also upset O_2 balance	if left unchecked may choke water body posing to Serious to fishes	
Day - 4	Unwanted fishes / predators: They may be unwanted fishes & predators were there	They compete with Culture fish for feed / nutrients	
Day - 5	Liming: Liming should be done to ponds based on variety of vetters	Liming includes ($CaCO_3$) (Carng) $(CO_3)_2$	
Day - 6	Fertilizers: plays a crucial role in fish culture	Ammonium phosphate (20 - 30 kg/ha)	

WEEKLY REPORT

WEEK - 1 (From Dt.12-12-22 to Dt.17/12/22)

Objective of the Activity Done:

Detailed Report: Preparation of ponds :- Opt size of the pond is rectangular with size varying from 0.1 - 2.0 hectares. with dept vary from 2.0 to 3.0 metres. the soil type of pond and its fertility states for fresh water fishes especially carp is alluvial soil with neutral PH range b/w 7.5 - 8.0 the PH has brought to control if the pond soil and water are saline alkaline.

The aquatic weed in fish pond are undesirable they not take away nutrients but also upset oxygen balance in water by release CO_2 into pond during night

The unwanted fishes or predators may be predatory they can be eliminated through repeated melting of pond.

The type of lime to be used depend on water PH it is recommended the lime [Cacy $(CO_3)_2$] Organic fertilizers ammonium phosphate (16:20:0) can be used at 20-30 kg/ha.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Selection :- male and female fishes are introduce after breeding season	Released eggs (1-10days) is known as spawn	
Day - 2	Spawn :- (20-25days) is called fry (20-40) - advantage.	fry should shifted to rearing tank	
Day - 3	Stocking fingerlings : High amount of density culture called stunted fingerlings.	high priority given for this.	
Day - 4	feeding : General feed should give at morning and evening routine	On 6th day food protein egg-feed	
Day - 5	Water mangemant : measure should be taken to ensure adequate water & soil quantity	measures should be adopted to prevent fish from stress	
Day - 6	Kacha nursery : A diseased fry added to kacha nursery	Forgrad management practice.	

WEEKLY REPORT

WEEK – 2 (From Dt. 19-12-22 to Dt. 26-12-22)

Objective of the Activity Done:

Detailed Report: Selection :- About 15-20 days of fertilization manuring selected species of crop are introduced into pond when several species of fishes are reared together in pond in an intensive way.

The survival of fingerlings introduce into particular pond depends very much in their size bigger fome size it should have size of 10-15 cm from the temperature point of view the best time of stock of pond will be when water in the pond is with in the opt range of 20-30°c Obviously temperature below 30°c will affect the growth of fish. Feeds for the crops may be are of 2 types. natural Artificial feeds and prohibition also. the natural growth of feeding in pond can be increased by regulator measures.

In water management all proper depth of water should be maintained harvesting can be done either by partially draining water out of pond by repeated netting.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to major Crops in Ctta; Large and broad head protruding jaw	Rearing (u-column)	
Day - 2	Feed fingerlings · Consume some plankton algae, zooplankton	Adult - free mainly on the surface	
Day - 3	Rohu · Colour - fish with dark scales on its upper body	Rearing (m-column)	
Day - 4	Feed Zooplankton · phytoplankton.	Freshwater growth booster help in fast growth	
Day - 5	Mrigal It is a very trimmed fish covered with cycloid Scales, Snout blunt.	Rearing (B- column)	
Day - 6	Feed plankton feeder/ debris found in bottom	Bottom feeder	

Scanned with OKEN Scanner

WEEKLY REPORT

WEEK - 3 (From Dt 27-12-22 to Dt 3-1-23..)

Objective of the Activity Done: Introduction of major carps.

Detailed Report:

Catla fish:-

Catla fish is a large and broad head, with a large protruding lower jaw, and upturned mouth. It has large greyish scales on its dorsal side and white on its belly. It reaches up to 182 cm in length and 38 kg wt.

→ It is a surface and mid water feeder

→ Adults feed on plankton and phytoplankton

Rohu fish:

Rohu fish has small head, sharp face, lower lip is frill like long circular body covered with scales it has max length of 1m.

→ feed is in form of pellet, prawn etc

Mrigal fish :-

mrigal fish are long, upper lip curved to down, pair at fins body is silver colored. Avg body length about meters.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Salinometer: Device used to measure salinity in solution	Read out the % of salt in solution.	[signature]
Day - 2	pH meter :- It measures hydrogen ion activity in water	neutral : pH = 7 acidic : pH = <7 basic : pH = >7	[signature]
Day - 3	Nitrate test :- Indicate high nitrate level in ponds	Low nitrate : Improves health of fish.	[signature]
Day - 4	Test :- 5 drops of reagent A / B in a test tube and shake it well.	Red (or) pink : Nitrate reducing red - violet : Presence of nitrate	[signature]
Day - 5			
Day - 6			

WEEKLY REPORT

WEEK – 4 (From Dt.4.1.23. to Dt.7.1.23.)

Objective of the Activity Done: Laboratory

Detailed Report: Salinometer.

It is a device used to measure salinity or the content of solution.

It is specially a calibrated hydrometer to read out % of salt in solution.

pH meter :-

A pH meter measures hydrogen ion activity in water based solution

Indicates acidity of solution

Neutral solution pH = 7

Acidic solution : pH = < 7

basic solution pH = > 7

Nitrate test :-

High nitrate levels in pond indicate build up of fish waste

Low nitrate : improves health of fish

High nitrate : increase of Algae

poor quality.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Selection of shrimp : Sampling is most imp factor in selection of juveniles	Donts Stocking should'nt be check quality of fry	
Day - 2	fodder : Fresh fodder with good nutrient value should be selected and purchased	Donts fodder should be fed without calculating FCR	
Day - 3	water ownership before Stok water quality should be test in lab	Donts without testing quality shrimp fry should not be released	
Day - 4	Aeration Additional aeration must be paper arranged because few shrimp require lot of vital gas	Donts : High density cultivation should not be done without Aeration	
Day - 5	Health ownership Biosecurity arrangements should be regularly reviewed	Donts The fence around pond and bird net should not be torn	
Day - 6	Hed : planning should be done based on market demand.	Donts Don't caught without paper planning caught on full moon days	

Scanned with OKEN Scanner

WEEKLY REPORT

WEEK - 5 (From Dt. 9-1-23 to Dt. 13-1-23)

Objective of the Activity Done: Do's and Don'ts in culture.

Detailed Report:

After stress tests microscopic and PCR tests for shrimps quality seed is selected and stocked.

Don'ts :- Shrimp fry should not be purchased from hatcheries not licensed by CAA.

Fodder :- Fresh fodder with good nutrient value should be selected.

Don'ts :- Do not use cheap feed.

Water ownership :- Check standard range O_2 / pH should be checked every morning / evening.

Don'ts :- In saline ponds there is no need to add minerals every week.

Aeration :- Depending on no of aerators pond should be arranged in 2 circles.

Health ownership :- Probiotics used instead of Antibiotics prawn on check tray should be checked.

Don'ts :- Some tools used in pond should not use in other pond.

Scanned with OKEN Scanner

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Complete fish farming culture is take up from the process of spawining to fulsize	farms have treated tanks, hatcheries, nursery, rearing, production ponds	
Day - 2	Restricted fish farming culturing any one stage in life cycle of fish	ponds are concerd only for production of spawn seed fullsize fish	
Day - 3	Extensive fish farming fish depend upon the natural feed for growth	productivity is directly proportional to available natural feed	
Day - 4	Intensive fish farming fish are provided with artificial seeds	Achiving maximum productivity by providing artificial food	
Day - 5	Traditional fish culture most common method of fish culture	artificial constructed ponds where fishes and shell fish are raised	
Day - 6	Semi - intensive fish farming Both natural and artificial feed supplied to fish	it required inputs of fertilization and supplement ary feeding	

WEEKLY REPORT

WEEK - 6 (From Dt. 19-1-22 to Dt 25-1-23)

Objective of the Activity Done: Different types of fish farming techniques

Detailed Report: Besides traditional ways, fish culture in artificial ponds to meet internal and external demand by regulating nutritional needs growth and breeding efforts are made to achieve high production.

Complete fish farming culture is taken up from the process of spawning to the stage of attaining maximum size culture centers will have breeding tanks, hatcheries, nursery ponds, rearing ponds, production ponds etc. restricted fish farming is culturing any one of the stage in the life cycle of fish in the ponds concerned with high yields

extensive and intensive farming techniques are fish depend on natural feed and artificial feed for growth and survival respectively.

ACTIVITY LOG FOR THE SEVEN WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Hatchery tanks :- Cement tanks with an area of $5 \times 1.5\ m^3$	Tanks used for breeding the prawn and larval development	
Day - 2	Selection & transport of Breeders. prawn measuring about 18 - 20 cm	Fully grown and sexually matre breeder prawns are used	
Day - 3	prevention from parasitic infection : By chemical bath	Chemical bath & Supply of sterilized feed prevents infections	
Day - 4	Feed : Green algal cells without parasite infection are provided	Green algal cells are provided as feed.	
Day - 5	Stocking : about 60 adult prawn are stocked for breeding in above tanks.	Ratio of male and female : Shrimps are 1:1 or 1:2	
Day - 6	Breeding and Spawning occur during night time just 60 cm above the bottom	mating can be side to have calculated by presence of Spawn	

Scanned with OKEN Scanner

WEEKLY REPORT

WEEK – 7 (From Dt.27-1-23 to Dt.2-2-23)

Objective of the Activity Done: Management of hatchery tanks in a prawn production.

Detailed Report:

Construction of hatchery tanks, selection and transport of breeders feed and preventive measures for parasite infection are discussed in this week as prime management criteria in prawn production.

Hatchery tanks are plastic tubes of 0.9 to 1 tonne capacity or cement tubes with an area of $5 \times 1.5\ m^3$ fully grown and sexually mature breeder prawn measuring about 18-20cm are selected from the sea water or culture centre. Selected from the sea water or culture centre selected polythene bags filled with 1/3 marine water and 2/3 oxygen.

Selected breeders are given chemical bath to avoid parasitic infections & provided with standized feed green algal cells without parasitic infection are provided as feed.

ACTIVITY LOG FOR THE EIGTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Reservoir or head pond :- These are Constructed near perineal water source	It is the main pond supplying water to different ponds.	
Day - 2	Hatching ponds :- Constructed near the main culture pond	Fertilized eggs develop into fry stage into ponds	
Day - 3	Nursing ponds : about 4 to 5 nursing ponds of 15 x 15 x 1.2m size.	Fish fry of 3-4 days age is released into these ponds	
Day - 4	Rearing ponds :- are 25 x 10 x 1.5 m size 10 - 12 ponds are Constructed	fish fry of 30 days are further grown in rearing ponds	
Day - 5	production ponds :- These are perennial in nature 91 x 50 x 3.5m in size	Small fishes are grown up to maximum size.	
Day - 6	Stocking pond :- Size 25 m x 10m x 1.75m	Fully grown fishes & breeders are stocked till they are disposed	

WEEKLY REPORT

WEEK – 8 (From Dt. 3-2-23 to Dt: Dt. 9-2-23)

Objective of the Activity Done: Various types of ponds.

Detailed Report: Fish farm necessary for artificial culture should possess the following ponds for keeping up various stages seen in development of cultivable fish. Each one of it has its own characters to be followed strictly to achieve good yield.

Reservoir ponds supply water to all ponds. ponds all things the year fertilized eggs are developed into fry stage in hatching ponds hapas made up of nylon net also used for breeding fish fry of 3-4 days age is released into nursery ponds for growing them for 30 days fish fry of 30 days age are further grown in rearing ponds of 25 x 10 x 1.5 m size these are generally stocked in high density. after into production ponds up to attaining maximum marketable size.

ACTIVITY LOG FOR THE NINETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Temperature : Fishes are poikilothermic organisms	Temperature has influence on growth respiration & reproduction	
Day - 2	Depth of pond : physico-chemical factor changes basing on depth of the pond	light cannot penetrate too deep resulting in absence of producers	
Day - 3	Turbidity : clay, sand & other floating particles reduce the transparency of water	prevent penetration of light, flood waters highly turbid	
Day - 4	Light :- penetration of light into water depends upon intensity of light	Aquatic plant :- plankton silicate prevent the penetration of light	
Day - 5	water current : Fishes generally breed only in flowing water	Hence warm water currents formed due to the exit of water increase	
Day - 6	Short conditions :- a wide pond increases the area of water.	Aquatic plants along the shore able to synthesize more food.	

WEEKLY REPORT

WEEK – 9 (From Dt.10-2-23 to Dt.17-2-23)

Objective of the Activity Done: Influence of physical factors in fish ponds

Detailed Report:

primary physical pond factors influencing the productivity are temperature depth of the pond transparency of water light and water movement.

Temperature has influence over respiration growth and reproduction of fish. they are poikilo thermus organisms whose body temperature changes in accordance with the temperature of the medium raise in temperature reduces the dissolved oxygen content An ideal pond should have a depth of 2 meters. physico-chemical factors change basing on the depth turbid water containing soil & clay particles entangle between the gill filaments causing obstacle for respiration light is the most important factor for productivity waves and water currents formed due to the entry and exit of water contribute to the increased productivity due to availability high dissolved oxygen.

ACTIVITY LOG FOR THE TENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Hydrogen ion concentration pH :- it is based on dissolved substrate	pH of 6.8 - 9.6 result in high productivity of pond.	
Day - 2	Dissolved oxygen ; depleted oxygen is regenerated from photo-synthesis	productivity of pond depends upon availability & regeneration of oxygen	
Day - 3	Carbon dioxide : It is released by aquatic organisms during respiratory process	Co_2 required for photosynthesis & over concentration of Co kills fishes.	
Day - 4	Nutrients ; necessary for growth of organisms.	when nutrients are plenty yield will be very high	
Day - 5	Hardness of water : depends up on dissolved calcium and magnesium salts.	grows better at hardness of 15 ppm should growth at less than 5ppm	
Day - 6	Other chemicals :- $CaCO_3$ Nitrates, Ammonia, Sulphates & phosphates.	$CaCO_3$ necessary for growth of bonus forming nutrients enhanced	

WEEKLY REPORT

WEEK – 10 (From Dt.20.-8.-23 to Dt.27.-8.-23.)

Objective of the Activity Done: Chemical factors in a fish pond.

Detailed Report: Hydrogen ion concentration dissolved oxygen Carbon dioxide nutrients, hardness of water and other minerals of the pond influence the growth and productivity of the fish.

pH of 6.8 – 9.0 result in high productivity of the pond efficiency water rain water, turbid water, decrease the pH and increase acidity. A pH of less than 6.4 more than 10.8 results in mortality of the organisms. productivity of pond depend upon the availability and regeneration of oxygen content in the pond is increased by using aerators Co_2 is required for photosynthesis but over concentration of Co_2 may result in causing mass mortality of aquatic organisms.

nutrients are necessary for growth of organisms micro elements are necessary like Copper, nickel, manganese, Zinc & Salts formed of Na, k, mg, Ca, Fe in the form of Sulphates, phosphates nitrates and Carbonates.

ACTIVITY LOG FOR THE ELEVENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Integrated fish farming & advantages culturing fish in associated with other agriculture & poultry	Fish wastes fertilize the crop fields suitable was trans, Carps	
Day - 2	fish-prawn culture prawn can be cultured in ponds primarily meant for carp culture	Excrete of carps forms food for prawns extra income we can earn	
Day - 3	Fish - poultry here poultry farm is constructed over a platform built of bamboo sticks.	This facility the direct fertilization of pond by dropping of chicks	
Day - 4	Rice - Fish cultured simultaneously: Rice varieties ADT_6, ADT 7.	Channa striatus clarias catla are generally grown along with rice	
Day - 5	Rotational Rice & fish culture: Rice fields are converted to fish culture ponds after harvesting	Soil become fertile with excreta of fish improves rice yield.	
Day - 6	Coconut-cum Banana: fish culture canals is between the rows of plants are utilised for fish culture	It provides continuous water to plants & utilisation of space and gives additional income.	

WEEKLY REPORT

WEEK – 11 (From Dt 28-2-23 to Dt 6-3-23.)

Objective of the Activity Done: Integrated fish farming technology.

Detailed Report:

Culturing the fish is associated with agriculture or ducks or chicks or pigs or prawns is called integrated fish or mixed culture fish wastes are fertilized the crops and poultry chicks are used as feed by fish. Generally these farming methods may yield low income but integrated farming techniques methods may multiple production of nutritional value and economic significance.

Prawn can be cultured in ponds primarily meant for carp culture. Carps are not predators, their excreta forms food for prawn this facilitates additional income of Rs 10,000 per hectare. fish poultry is also a better integrated farming as poultry waste are used as food for the fish.

ACTIVITY LOG FOR THE TWELVETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Cotton mouth disease :- This is caused by infection of flexibacteria	Characteristic growth of white cotton like filaments around the mouth	
Day - 2	Furunculosis :- This is caused by infection of aeromonas salmonicida	Blisters with water or pus are formed at the site of infection.	
Day - 3	Tuberculosis :- This is due to infection by mycobacterium.	disease is identified by finrot wounds on body blisters loss of weight	
Day - 4	Dropsy :- initially gill is due to viral infection & Secondary infection.	Bulging of belly due to accumulation yellow colour liquid in body cavity	
Day - 5	Columnaris :- This is due to infection of bacteria Cardrococus columnaris	identified by formation of spots over body / scales fall off.	
Day - 6	prophylactic measures :- By using antibiotics & probiotic we can prevent infection.	Chemical bath of infected fish & using antibiotics. fishes can be cured	

Scanned with OKEN Scanner

WEEKLY REPORT

WEEK – 12 (From Dt.7-3-23 to Dt.15-3-23)

Objective of the Activity Done: Bacterial diseases & prophylactic measures

Detailed Report:

Bacteria, Viruses, protozoans are common parasites seen harbouring the fishes. Infections are common parasites related of growth & some times death of fishes which leads to loss for cultivators.

Cotton mott disease, furunculosis, fin & tail rot disease, tuberculosis, dropsy, columnaris are the various bacterial diseases of fish. Their symptoms are like wounds on body, blisters, over the internal organs spots over the body, blisters over the internal organs spots on body, bottom fin rays of. Cotton wool & cotton mott & mass mortality of fishes also. Sometimes seen due to these bacterial diseases, their symptoms vary from different bacterial diseases.

Measures:- General drugs used to cure the disease are Sulphanilamide, Sulphadiazine, Sulphamerazine etc. Infections can be prevented by mixing antibiotics like Chloramphinicol, tetracycline, erythromycin etc... Chemical bath of infected fishes cure the disease maintaining prevents and cure.

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced *(in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)*

Good environment very important for learning and doing job or any other work. good environment is always. boost up your interest. A working environment is the setting social features and physical features in which your perfom your job these elements can impact feelings of well being work place relationships, collaboration and efficiency and employee health. the office more comfortable and improving your community. the work environment impacts many moods, drive, mental health & performance. my confidence is increased, overall environment is good at fishery department through positively influencing entire work environment. the office is more comfortable improve my communication & feel. there is a good interaction at dept. manufacturing - to learn there is enough. they fix time from morning to evening for classes and framed timetable accordingly.

Scanned with OKEN Scanner

Describe the real time technical skills you have acquired *(in terms of the job-related skills and hands on experience)*

Internship produce valuable personal experience and allow us to test theories and concepts we have been introduced to throughout our college courses Skills we have picked up during course area R.

Real time skills :-

1. Communicating
2. collaboration
3. Time management
4. Critical thinking
5. patience.

Technical skills :-

1. Data collection
2. Harvest time
3. Data entry
4. Fish entry
5. Laboratory equipment
6. fish culture

Describe the managerial skills you have acquired (*in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.*

→ Open communication and mutual support are 2 characteristics of good team work contribute to increased job satisfaction and active management of idea sharing among the people.

→ A successful and qualified intern needs to have willingness to learn.

→ Internship are introduction to career fields that have the capacity to teach really valuable lessons for an interns future career path

→ It teaches us to be great listeners who knows how to take decision

→ Showing willingness to learn work experience at field to offer the most employees.

→ Every learning opportunities that comes our way to familiarize ourself with various aspects of related area.

Scanned with OKEN Scanner

Describe how you could improve your communication skills *(in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)*

Think before you speak :-

Always pause before you speak, not-saying the 1st thing that comes to mind. take a moment and pay case attention to what you say and how you say it.

Writters things down :-

Take a note while you are taking to another person can when you are in a meeting in the internship

Body language matters :-

This is important for face to face meeting and for also video conference make sure that appearaceble so have open body language, keep an eye contact

Maintain a positive attitude :-

Your positive attitude will shine through and other person will know it and helps in people will respond positively to you.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Importance of interpersonal skills :-

→ Interpersonal skills reflect ability of individual to interact with other members of group in a brief situation

→ Emotional maturity and balance promote good interpersonal relationships.

→ The person has to be more centric and less self centred

Importance of presentation skills :-

Presentation is an effective way to communicate a large no. of people at same skill.

Leadership skill :-

Ability to take leadership roles and lead, inspire/carry team along to help them achieve groups objectives

Analytical skills. :-

Ability to analyze and provide other to see problem from multiple perspective without hurting members.

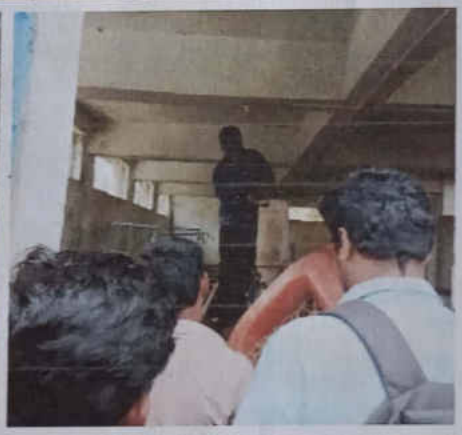
Describe the technological developments you have observed and relevant to the subject area of training *(focus on digital technologies relevant to your job role)*

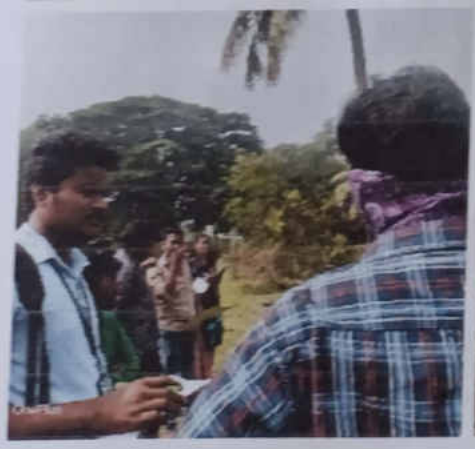
Technological development includes equipment and practises used for finding, harvesting, handling, processing and distributing of aquatic resources & their products processing technology helps reduce food loss and waste, thus reducing pressure on fisheries resources and fostering Substainability of sector, processing often results in quantity of by-products. Harvesting of aquatic resources and production is done either in wild or in controlled environment estimates can be made quickly meaning fish spends less time out of the water increasing their survival are useful technologies for improving products SNPs have been emerged as genotyping technology which is widely used lab equipment like salinometer.

THE

BEST THING

TO HOLD ONTO IN LIFE IS EACH OTHER





Student Self Evaluation of the Short-Term Internship

Student Name: B. Pavan **Registration No:** 2022001049012

Term of Internship: **From:** 12-12-22 **To:** 16-3-2023

Date of Evaluation: 16-3-2023

Organization Name & Address: Fishery development office, elisapuram srikakulam

Please rate your performance in the following areas:

Rating Scale: **Letter grade of CGPA calculation to be provided**

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	**OVERALL PERFORMANCE**	**1**	**2**	**3**	**4**	**5**

Date:

B. Pavan
Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Scanned with OKEN Scanner

Student Name: B. Pavan	Registration No: 2022001049012
Term of Internship: From: 12-12-22	To: 16-3-2023
Date of Evaluation: 16-3-2023	
Organization Name & Address: Fishery development office, Elisapuram Srikakulam	
Name & Address of the Supervisor with Mobile Number: K. Gangadarao FDO, Srikakulam 9866089765	

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4 ✓	5
2	Written communication	1	2	3	4 ✓	5
3	Proactiveness	1	2	3	4 ✓	5
4	Interaction ability with community	1	2	3	4 ✓	5
5	Positive Attitude	1	2	3	4	5 ✓
6	Self-confidence	1	2	3	4	5 ✓
7	Ability to learn	1	2	3	4	5 ✓
8	Work Plan and organization	1	2	3	4	5 ✓
9	Professionalism	1	2	3	4	5 ✓
10	Creativity	1	2	3	4	5 ✓
11	Quality of work done	1	2	3	4	5 ✓
12	Time Management	1	2	3	4	5 ✓
13	Understanding the Community	1	2	3	4	5 ✓
14	Achievement of Desired Outcomes	1	2	3	4	5 ✓
15	**OVERALL PERFORMANCE**	1	2	3	4 ✓	5

Date: Fisheries Development Officer Srikakulam Dt.....................

Signature of the Supervisor
K. GANGADHARA RAO, Fisheries Development Officer, Srikakulam Dist

Internal & External Evaluation for Semester Internship

Objectives:

- Explore career alternatives prior to graduation.
- To assess interests and abilities in the field of study.
- To develop communication, interpersonal and other critical skills in the future job.
- To acquire additional skills required for the world of work.
- To acquire employment contacts leading directly to a full-time job following graduation from college.

Assessment Model:

- There shall be both internal evaluation and external evaluation
- The Faculty Guide assigned is in-charge of the learning activities of the students and for the comprehensive and continuous assessment of the students.
- The assessment is to be conducted for 200 marks. Internal Evaluation for 50 marks and External Evaluation for 150 marks
- The number of credits assigned is 12. Later the marks shall be converted into grades and grade points to include finally in the SGPA and CGPA.
- The weightings for Internal Evaluation shall be:
    - Activity Log 10 marks
    - Internship Evaluation 30 marks
    - Oral Presentation 10 marks
- The weightings for External Evaluation shall be:
    - Internship Evaluation 100 marks
    - Viva-Voce 50 marks
- The External Evaluation shall be conducted by an Evaluation Committee comprising of the Principal, Faculty Guide, Internal Expert and External Expert nominated by the affiliating University. The Evaluation Committee shall also consider the grading given by the Supervisor of the Intern Organization.
- Activity Log is the record of the day-to-day activities. The Activity Log is assessed on an individual basis, thus allowing for individual members within groups to be assessed this way. The assessment will take into consideration

Scanned with OKEN Scanner

the individual student's involvement in the assigned work.

- While evaluating the student's Activity Log, the following shall be considered -

  a. The individual student's effort and commitment.

  b. The originality and quality of the work produced by the individual student.

  c. The student's integration and co-operation with the work assigned.

  d. The completeness of the Activity Log.

- The Internship Evaluation shall include the following components and based on Weekly Reports and Outcomes Description

  a. Description of the Work Environment.

  b. Real Time Technical Skills acquired.

  c. Managerial Skills acquired.

  d. Improvement of Communication Skills.

  e. Team Dynamics

  f. Technological Developments recorded.

Scanned with OKEN Scanner

INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. pavan
Programme of Study: Internship
Year of Study:
Group: III B.Z.C (Em)
Register No/H.T. No: 202200104901 2
Name of the College: Government Degree college (men) srikakulam
University: Dr. B.R. Ambedkar university.

Sl.No	*Evaluation Criterion*	*Maximum Marks*	*Marks Awarded*
1.	Activity Log	10	
2.	Internship Evaluation	30	
3.	Oral Presentation	10	
	GRAND TOTAL	50	

Date:

Signature of the Faculty Guide

EXTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. Pavan
Programme of Study: Internship
Year of Study:
Group: III BSc B.Z.C (Em)
Register No/H.T. No: 202200104 9012
Name of the College: Government Degree college (men) Srikakulam
University: Dr. B.R. Ambedkar university.

Sl.No	*Evaluation Criterion*	*Maximum Marks*	*Marks Awarded*
1.	Internship Evaluation	80	75
2.	For the grading giving by the Supervisor of the Intern Organization	20	19
3.	Viva-Voce	50	
	TOTAL	150	
GRAND TOTAL (EXT. 50 M + INT. 100M)		**200**	

Signature of the Faculty Guide

Signature of the Internal Expert K. GANGADHARA RAO
E.I.D. No: 0104104
Fisheries Development Officer
Srikakulam Dist

Signature of the External Expert

Signature of the Principal with Seal

ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION
(A Statuory Body of the Government of Andhra Pradesh)
2nd, 3rd, 4th and 5th floors, Neeladri Towers, Sri Ram Nagar, 6th Battalion Road
Atmakur (V)Mangalagiri (M), Guntur, Andhra Pradesh, Pin - 522 503
www.apsche.ap.gov.in