

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 D. Paul

Name of the College Art's College men's SRilcaleulam

Registration Number 2022001049024

Period of Internship From 10

Name & Address of the Intern Organization Fisherys - Development -
office ilisupuram. SRilcaleulam.

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. Ravi babu Sir

(Name of the Faculty Guide)

Department of

Zoology Government Degree College (men) Srikalahasti

(Name of the College)

Submitted by:

Doradla Paul

(Name of the Student)

Reg.No: 2022001049024

Department of Zoology

Government Degree College (men) Srikalahasti

(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.

Student's Declaration

I, D. Paul. a student of Internship
Program, Reg. No. 2022001049024 of the Department of Zoology Govt-degree
College do hereby declare that I have completed the mandatory internship
from 12/12/2022 to 16/03/2023 in Fisheries Department (Name of
the intern organization) under the Faculty Guideship of
S. Pami babu sir (Name of the Faculty Guide), Department of
Zoology Government Degree College (men) Srilalduan
(Name of the College)

D. Paul.
(Signature and Date)

Official Certification

This is to certify that (2). Paul. (Name of the student) Reg. No. 2022001049024 has completed his/her Internship in Fisheries Department (Name of the Intern Organization) on Fishery (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of IIIrd BZC (EM) B.Sc in the Department of Govt-degree college (Name of the College).
(Men's)

This is accepted for evaluation.



Endorsements

(Signatory with Date and Seal)
(K. GANGADHARA RAO)
E.I.D. No: 0204 104
Fisheries Development Officer
Sriakulam Dist

Faculty Guide

Head of the Department

Principal

Government of Andhra Pradesh
Department of Fisheries

Certificate from Intern Organization

This is to certify that D. Paul (Name of the intern)
Reg. No 2021001049024 of Gout Degree College (Men) of the
College) underwent internship in Department of Fisheries (Name of the
Intern Organization) from 12/12/2021 to 16/03/2022

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



K. GANGADHAR REDDY Seal
Authorized Signatory
E.I.D. No: 0104-104
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 guidance positive criticism and encouragement - rendered by Respectable Poo sir through the period of this investigation and preparation of the project - I am really indebted for his valid suggestions advice and help in collecting the project -

Contents

The Sustainable fisheries management project will be a highly innovative for strengthening fisheries management. The goal of fisheries management is to produce sustainable biological, environmental, and socioeconomic benefits from renewable aquatic resources. Resource conservation, food production, generation of economic wealth, generation of income for fisheries, main training, employment for fisheries, maintain viability of fishing community are main objectives of fishery and stocking of Carps, introduction of some major crops.

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 is to produce sustainable biological, Environmental and socioeconomic benefits from renewable aquatic resources. For conservation food production generation economic wealth generation favouring employment for fisheries, maintenance of biodiversity, culture selection and breeding and husbandry of the water 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 Sivikulam is located at
Lakshminarayana Street - Mispuram, Salem, promotion
and the development of fishing fisheries and its associated
activities including infrastructure development - marketing
Exports etc. welfare of fishers and other fishes
holle and strengthening of their livelihood are the
vision values of organization promote minister motto.
Promote socio-economic welfare of fishers and fish
nutritional support to fisher for fish
for him and his people

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 mechanism for strengthening fishery management capacity accord with strategic centers to modernize the role of public sector in this we have learned about - the pond managements selection of shrimp fodder given to fish Record maintain once water quality the pond etc.. major and about - their breeding and feeding agriculture live stock fishes and food particularly those functions require local and foreign techniques for testing quality. Salinity of water, skills, acquired during project include management of fishes less, equipment - of fishery dept.

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 be affected by various factors on pond	BSZ
Day - 2	Soil and water:- the soil type of pond and its fertility is necessary.	It controls pond stability post to salinity of water	BSZ
Day - 3	Aquatic weeds, they not only take away nutrients but also upset a balance	If left unchecked they choke water body leading to serious fisher.	BSZ
Day - 4	Unwanted fish and invertebrates They may be unwanted fish and predators were there	They compete with culture fish for food nutrients.	BSZ
Day - 5	Liming:- Liming should be done to ponds based on variety of culture	Liming includes CaCO_3 (a mg) CaSO_4 (a mg) Ca(OH)_2 .	BSZ
Day - 6	Fertilization:- plays a major role in fish culture	Ammonia phosphate (20-30 kg/ha)	BSZ

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Preparation of pond :- opt size of the pond is rectangular with size varying from 01-2-6 metres. whatever range from 20 to 30 metres the soil type of pond and underlying status for fresh water fishes especially crop is annual soil with neutral pH range b/w 7.5-8.0. the pH has brought to neutral the pond soil and water are saline alkaline the unwanted fishes (or) predators, may be predatory they can be eliminated they repeated mowing of pond. they can be eliminated through repeated mowing of pond the type of time to be used depend on water the time (evening or)

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 introduced for breeding season	Released Egg (1-10 days) is known as spawn	
Day - 2	Spawn - (20-25 days) is called fry (30-40) - Advance fry.	fry should be shifted to rearing tank	
Day - 3	Stunted fingerlings: High amount of density culture called stunted fingerlings.	High priority given for this	
Day - 4	Feeding: General feed should be given at morning and evening routine	On 6th day food protein - Egg feed	
Day - 5	Water management: measure should be taken to ensure adequate water & soil quality	measures should be adopted to prevent fish from stress.	
Day - 6	Kacha nursery: Advance fry added to Kacha Nursery	For good management practices	

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Selection: About 15-20 days after the initial manuring selected species of crops are introduced into Pond. When several species of fishes are reared together in pond in an intensive way.

The survival of fingerlings introduced into particular pond depends very much in their size bigger than 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 within 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 probiotics also. The natural growth of feeding in Pond can be increased by regular measuring.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction of major crops 1-catla. - Large and Broad head, protruding	Rearing: (U-column)	✓
Day - 2	Feed: Fingerlings consume some Plankton along, zooplankton.	Adults feed mainly on the surface	✓
Day - 3	Rohu: coloured fish with dark scales on its upper body.	Rearing: (M-column)	✓
Day - 4	Feed: Zooplankton Phyto Plankton.	feedwater growth Booster helps in fast growth	✓
Day - 5	Mrigal: It is a ray finned fish, covered with cycloid scales, snout Blunt	Rearing (B-column)	✓
Day - 6	Feed: Plankton feeder debris found in bottom	Bottom feeders	✓

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 of salt in salinity in solution	Read out the-1. of salt in solution	BS2
Day -2	pH meter:- It measures hydrogen ion activity in water.	Neutral: $pH = 7$ Acidic: $pH < 7$ Basic: $pH > 7$	BS2
Day -3	Nitrate test: Indicates high nitrate leaves in pond	low nitrate improves health of fish	BS2
Day -4	Test:- 5 drops of reagent A & B in a test tube and shake it well	Red (or) Pink: Nitrate reduction Red-violet presence of nitrate	BS2
Day -5			
Day -6			

WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Salinometer :-

It is a device used to measure salinity (or) discontent of solution.

It is specially a calibrated hydrometer to read out-t of salt in solution

pH meter :-

A pH meter measures hydrogenion activity in water based solutions.

Indicates acidity of solution

Neutral Solution : $p^H = 7$

Acidic Solution : $p^H < 7$

Basic Solution : $p^H > 7$

Nitrate test :-

High nitrate levels in pond indicates build up of fish waste.

Low nitrate : improves health of fish

High nitrate : increase of Algae

Poor quality

Test :- 5 drops of reagent A & B in test tubes and shake it well.

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 important for selection of juveniles	Donts:- Stocking shouldn't be checked quality of fry	
Day - 2	Fodder: Fresh fodder with good nutritional value should be selected and purchased	Donts:- Fodder should not be fed without calculating FCR.	
Day - 3	Water ownership: Before stock water quality should be tested in lab.	Donts:- Without testing quality shrimp fry should not be released	
Day - 4	Aeration: Additional aeration must be properly arranged because few shrimps require lot of vital	Donts:- High density cultivation should not be done without aeration	
Day - 5	Health ownership: Bio security arrangements should be regularly reviewed	Donts:- The fence around pond and bird net should not be torn.	
Day - 6	Harvest: Planning should be done based on market demand.	Donts:- Don't caught without proper planning caught on full moon day	

WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: After stress tests, microscopic and PCR tests for shrimps, quality seed is selected and stocked

Don't's :- Shrimp fry should not be purchased from hatcheries not licensed by CCA.

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

Don't's :- In saline ponds there is no need to added minerals every week.

Aeration :- Depending on no. of aerations Pond should be arranged in 2 circles.

Don't's :- Don't use poor quality aerations

Health ownership :- Probiotics used instead of Anti biotics Prawn in cheek tray should be checked.

Don't's :- Some tools used in 1 Pond should not used in other Pond.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Complete fish farming</u> : culture is taken up from the process of spawning to full size	Farms have breeding tanks hatcheries, nursery rearing.	BB
Day - 2	<u>Restricted fish farming</u> culturing any one stage in life cycle of fish.	Ponds are conceived only for production of spawn/seed	BB
Day - 3	<u>Extensive fish farming</u> Fish depended upon the natural feed for growth	Productivity is directly proportional to available natural feed.	BB
Day - 4	<u>Intensive fish farming</u> Fishes are provided with artificial seed.	Achieving maximum productivity by providing artificial feed.	BB
Day - 5	<u>Traditional fish culture</u> most common method of fish culture	artificially constructed ponds where fin-fishes and shell fish	BB
Day - 6	<u>Semi-intensive fish farming</u> : Both natural and artificial feed supplied to fish.	it requires inputs of fertilizers and supplementary feeding	BB

WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done:

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

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 etc--. Restricted fish farming is culturing any one of the stage in the life cycle of fish in the ponds concerned with high yield.

Extensive and intensive farming technique are fish depends 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	<u>Hatchery tanks</u> : cement tanks with an area of $5 \times 1.5 \text{ m}^2$	tanks used for breeding the prawns and larval development.	
Day - 2	<u>Selection and transport of breeders</u> Prawns measuring about 18-20 cm.	Fully Grown and Sexually mature breeder Prawns are used	
Day - 3	<u>Prevention from Parasitic infection</u> by chemical Bath	chemical bath & supply of Sterilized feed prevents Infections	
Day - 4	<u>Feed</u> : Green algal cells without Parasitic infection are provided as feed.	Green algal cells are provided	
Day - 5	<u>Stocking</u> : - About 60 adult Prawns are stocked for breeding in above tanks.	Ratio of male and female shrimps are 1:1 or 1:2	
Day - 6	<u>Breeding and spawning</u> occurs during night time just 60 cms above the bottom.	mating can be said to have occurred by presence of sperma.	

WEEKLY REPORT

WEEK - 7 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

construction of hatchery tanks, selection and transport of breeders, feed and preventive measures for parasitic 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 $5 \times 1.5 \text{ m}^3$. Fully grown and sexually mature breeder Prawns measuring about 18-20 cm are selected from the sea water or culture centers. Selected breeders are transported in sealed Polythene bags filled with $1/3$ marine water and $2/3$ oxygen.

Selected breeders are given chemicals both to prevent parasitic infections & provided with specialized feed. Green algal cells without parasitic infection are provided as feed.

WEEKLY REPORT

WEEK - 7 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

construction of hatchery tanks, selection and transport of breeders, feed and preventive measures for parasitic 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 $5 \times 1.5 \text{ m}^3$. Fully grown and sexually mature breeder Prawns measuring about 18-20 cm are selected from the sea water or culture centers. Selected breeders are transported in sealed Polythene bags filled with $1/3$ marine water and $2/3$ oxygen.

Selected breeders are given chemicals both to prevent parasitic infections & provided with sterilized feed. Green algal cells without parasitic infection are provided as feed.

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Reservoir or head Pond</u> These are constructed near perennial water source	It is the main pond supplying water to different ponds.	
Day - 2	<u>Hatching Ponds</u> - constructed near the main culture pond	Fertilized egg develop into fry stage in these ponds	
Day - 3	<u>Nursery Ponds</u> : about 4 to 5 nursery ponds of 15x15x1.2 m size are constructed	Fish fry of 3-4 days age is released into these ponds for growing	
Day - 4	<u>Rearing ponds</u> : are 25x10x1.5 m size 10-12 ponds are constructed	Fish fry of 30 days are further grown in rearing ponds	
Day - 5	<u>Production Ponds</u> : These are Perennial in nature 10x50x3.5 m size	Small fishes are grown up to medium size	
Day - 6	<u>Stocking Ponds</u> : size 25m x 10m x 1.75m	Fully grown fishes breeders are stocked till they are disposed	

WEEKLY REPORT

WEEK - 8 (From Dt..... to Dt: Dt.....)

Objective of the Activity Done:

Detailed Report:

Fish form necessary for artificial should passes the following Ponds for keeping up various stages seen in development of a fish. Each one of it has its own characters to be followed strictly to achieve good yield. Reservoir Ponds supply water to different Ponds all through the year. Fertilized eggs are developed into fry stage in hatching ponds. Larvae made up of mosquito net also used for breeding fish fry of 3-4 days age is released into nursery Ponds for growing them for 30 days.

ACTIVITY LOG FOR THE NINETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Temperature</u> : fishes are Poikilothermus organisms.	Temperature has influence on growth, Respiration & reproduction.	LS2
Day - 2	<u>Depth of Ponds</u> : chemical factors changes basing on depth of the Pond	light cannot penetrate too deep resulting in absence of producers.	LS2
Day - 3	<u>Turbidity</u> : Clay, sand & other floating particles reduce the transparency of water.	prevents penetration of light, flood water is highly turbid.	LS2
Day - 4	<u>Light</u> : penetration of light into water depends upon intensity of light	Aquatic plants & plankton, silt etc. prevent the penetration of light	LS2
Day - 5	<u>Water current</u> : fishes generally breed only in flowing waters	Hence waves & water currents for meduce to the exit of water	LS2
Day - 6	<u>Shore conditions</u> : a wide Pond increases the area of water.	aquatic plants along the shore able to synthesize more food	LS2

ACTIVITY LOG FOR THE NINETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Temperature</u> : Fishes are Poikilothermus organisms.	Temperature has influence on growth, Respiration & reproduction.	
Day - 2	<u>Depth of Ponds</u> : Chemical factors changes basing on depth of the Pond	light cannot penetrate too deep resulting in absence of producers.	
Day - 3	<u>Turbidity</u> : Clay, sand & other floating particles reduce the transparency of water.	prevents penetration of light, flood water is highly turbid.	
Day - 4	<u>Light</u> : penetration of light into water depends upon intensity of light	Aquatic plants & plankton, silt etc. prevent the penetration of light	
Day - 5	<u>water current</u> : Fishes generally breed only in flowing waters	Hence waves & water currents for medium to the exit of water	
Day - 6	<u>shore conditions</u> : a wide Pond increases the area of water.	Aquatic plants along the shore able to synthesize more food	

WEEKLY REPORT

WEEK - 9 (From Dt..... to Dt.....)

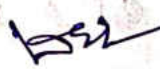
Objective of the Activity Done:

Detailed Report:

Prime physical factors of the Pond influencing the productivity are temperature, depth of the Pond. Temperature has influence over respiration, growth, and reproduction of fishes. These are poikilothermous 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 changes basing on the depth.

ACTIVITY LOG FOR THE TENTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Hydrogen ion concentration</u> :- it is based on dissolved substance	pH of 6.8 - 9.0 results in high productivity of Pond.	
Day - 2	<u>Dissolved oxygen</u> :- Depleted oxygen is regenerated from photosynthesis.	Productivity of Pond depends upon availability of oxygen generation.	
Day - 3	<u>Carbon dioxide</u> :- it is released by aquatic organisms during respiratory process.	CO ₂ required for photosynthesis & over concentration kills fishes.	
Day - 4	<u>Nutrients</u> :- necessary for growth of organisms	when nutrients are plentiful yield will be very high	
Day - 5	<u>Hardness of water</u> :- depends upon dissolved calcium and magnesium salts.	Grows better at hardness of 15 PPM slows growth at less than 5 PPM	
Day - 6	<u>Other chemicals</u> :- CaCO ₃ , Nitrates, Ammonia, sulphates & phosphates	CaCO ₃ necessary for growth of bones. Removing nutrients enhance.	

WEEKLY REPORT

WEEK - 10 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Hydrogen ion concentration, dissolved oxygen, carbondioxide, nutrients, hardness of water and other minerals of the Pond influence the growth and productivity of the fish.

p^H of 6.8-9.0 results in high Productivity of the Pond. Difficiency of water, rain water, Turbied water decreases the p^H and increases acidity. A p^H of less than 6 & more than 10.8 results in mortality of the organisms. Productivity of Pond depends up on the availability and regeneration of oxygen, oxygen content in the Pond is increased by using aerators. CO_2 is required for Photosynthesis is but over convention of CO_2 may result in causing mass mortality of aquatic organisms.

nutrients are necessary for growth of organism. micro elements are like copper, nickel, manganese, tin & salts, Phosphates of Na, K, Mg, Ca, Fe, in the form of sul Phates.

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 association with others agriculture.	Fish waste fertilise the crop field while waste from crop & poultry	
Day - 2	Fish-prawn culture: Prawn can be cultured in ponds primarily meant for carp culture	excreta of crabs forms food for Prawns. Extra income we can earn.	
Day - 3	Fish-Poultry: here poultry farms constructed over a platform built of bamboo sticks.	This facilitates the direct fertilization of Pond by dropping of chicks.	
Day - 4	Rice-Fish cultured simultaneously:- Rice varieties ADT 6, ADT 7 Rajarani are used.	Channa striatus, Clarias, catfish are generally grown along with Rice.	
Day - 5	Rotational Rice & fish culture:- Rice fields are converted to fish culture ponds	soil become fertile with excretion of fish improves Rice yield.	
Day - 6	Coconut (or) Banana:- Fish culture:- canals in between the rows of plants are utilised for	it provides continuous water to plants & utilization of space.	

WEEKLY REPORT

WEEK - 11 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: culturing the fish in association with agriculture or ducks or chicks or pigs or Prawns is called integrated fish or mixed culture. Fish wastes are utilised. The crops and poultry chicks are used as feed by fish. Individually these farming methods may yield low income but integrated farming technique yields multiple products 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 Prawns. This facilitates additional income of Rs 10,000 per hectare. Fish Poultry is also a better integrated farming as poultry wastes can be done in two ways for fish.

Rice-fish culture can be done in two ways either both of them cultured simultaneously or alternatively canals or ditches are constructed in rice fields where fishes can be grown.

ACTIVITY LOG FOR THE TWELVETH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	<u>Cotton mouth disease</u> : This is caused by infection of flexibacteria.	Characteristic growth of white cotton like filaments around the	12/2
Day - 2	<u>Fixunculosis</u> : This is caused by infection of <i>Aeromonas salmonicida</i> .	Blisters with water or pus are formed at the site of infection	12/2
Day - 3	<u>Tuberculosis</u> : This is due to infection by mycobacterium.	disease is identified by finrot wound on body blisters, loss of	12/2
Day - 4	<u>Dropsy</u> : initially it is due to viral infection secondary infection by bacterium	Bulging of belly due to accumulation of yellow colour liquid in body cavity	12/2
Day - 5	<u>Columnaris</u> : This is due to infection of bacteria <i>Chondrocytes columnaris</i>	identified by formation of ulcers over body, scales fall off	12/2
Day - 6	<u>Prophylactic measures</u> By using antibiotics & probiotics we can prevent infections.	Chemical bath of infected fish & using antibiotics fishes.	12/2

WEEKLY REPORT

WEEK - 12 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: Bacteria, virus, Protozoans are common parasites seen harbouring the fishes. Infection by pathogens causes retardation of growth & some times death of fish which leads to loss for cultivators.

Cotton mouth disease, furunculosis, fin or tail rot diseases, tuberculosis, dropsy, columnaris are the various bacterial diseases of fishes. Their symptoms are like wounds on body, blisters over the internal organs, spots over the body, broken fin rays, & cotton moulds at mouth & mass mortality of fishes also sometimes seen. Due to the bacterial diseases, their symptoms vary different bacterial diseases.

General drugs used to cure the disease are chloramphenicol, terramycin, erythromycin etc. -- Chemical bath of infected fishes cures the disease.

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 you perform 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 communication. The work environment impacts may good, drive mental health and performance. My confidence is increased, overall environment is good at fishes dept through positively influence entire work in environment. The office is more comfortable improve my communication. I feel there is a good interaction at dept. min facilities to learn there is enough. They fix time room morning to evening for classes and framed timetable accordingly.

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

Internship Provide valuable personal experience and allow us to test theories and concepts we have been introduced to throughout our college careers skills we have picked up during course area is.

Real time skills :-

1. communication
2. collaboration
3. Time management
4. critical thinking
5. Patience.

Technical skills :-

1. Data collection
2. Harvest time
3. Data Entry
4. Fish health
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 & mutual support are
characteristic of good team work. Contributes to
increased job satisfaction and active manage-
ment of idea sharing among the people.

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 the
speak not staying the 1st thing that comes to
mind take a moment and plays care attention
of what you say and how you say it.

Written things down

Take a note while you are talking to another
person (or) when you are in a meeting or
interview.

Maintain positive attitude!

Your positive attitude will shine through and
other person positive will it and helps in.
people will response 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.

The Participating Candidates will be assessed with in term to Clarity of thoughts, expression and aptness to language.

Important - of Interview skills:-

* Interview skills reflect the ability of individuals to interact with other members of group in a great situation.

Leadership Skills

Ability to take leadership roles and lead inspired Carry team along in achieving groups (or) objectives.

Analytical skills

Ability to analyze and presudes others to see problem from multiple perspective without hurting group 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 developments of includes equipment and practice used for finding, harvesting handling processing and distributing of aquatic resources and their products processing aquatic resources and their products reduce food loss and waste thus required pressure of fisheries resources and results in quantity of by production is done either in wild (81) in controlled environment - Estimators can be Technologies like sonar and genetic markers and analysis - assessed for technologies like salinity meter is meter helps in maintain the quantity salinity of fishes in pond tests includes the nitrate test will help the identify nitrate levels in ponds in culture.

Student Self Evaluation of the Short-Term Internship

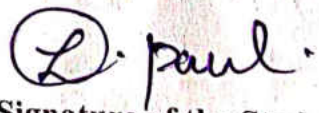
Student Name: <u>D. Paul.</u>	Registration No: _____
Term of Internship: From: <u>12/12/22</u> To: <u>16/03/23</u>	
Date of Evaluation: <u>16/03/23</u>	
Organization Name & Address: <u>Fisheries Department - Office, Al-</u> <u>Disipuram Srilekulam</u>	

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: _____


 Signature of the Student

Evaluation by the Supervisor of the Intern Organization

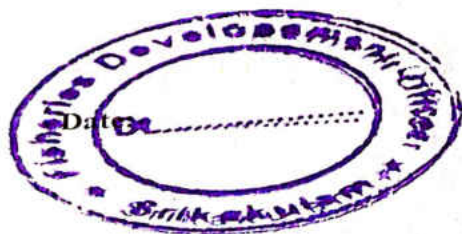
Student Name: <u>D. Paul.</u>	Registration No: <u>2022001049024.</u>
Term of Internship: From: <u>12/12/2022</u> To: <u>16/03/2023</u>	
Date of Evaluation: <u>16/03/23</u>	
Organization Name & Address: <u>Fisheries department - Office, Srirangapatna</u>	
Name & Address of the Supervisor <u>Mr. Gangadhar Sir, Fisheries Department - Office Supervisor.</u>	

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
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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



Signature of the Supervisor
(K. GANGADHARA RAO)
F.D.O. No. 0500/2022
Fisheries Development Officer
Srirangapatna Dist



EVALUATION

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

MARKS STATEMENT
(To be used by the Examiners)

EXTERNAL ASSESSMENT STATEMENT

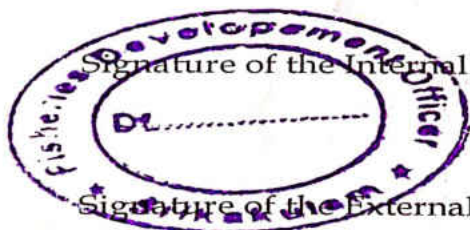
Name Of the Student: D. Paul
 Programme of Study: Bachelor of Science
 Year of Study: 2022-2023
 Group: CBZ (EMI)
 Register No/H.T. No: 2022001049024
 Name of the College: Govt Degree College (Men's), Srilakshman
 University: Dr. B.R. Ambedkar University

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

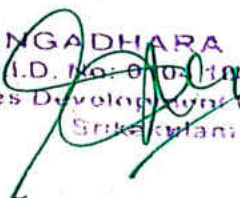


Signature of the Internal Expert



Signature of the External Expert

(K. GANGADHARA RAO)
 E.I.D. No: 0103104
 Fisheries Development Officer
 Srilakshman Dist.



Signature of the Principal with Seal