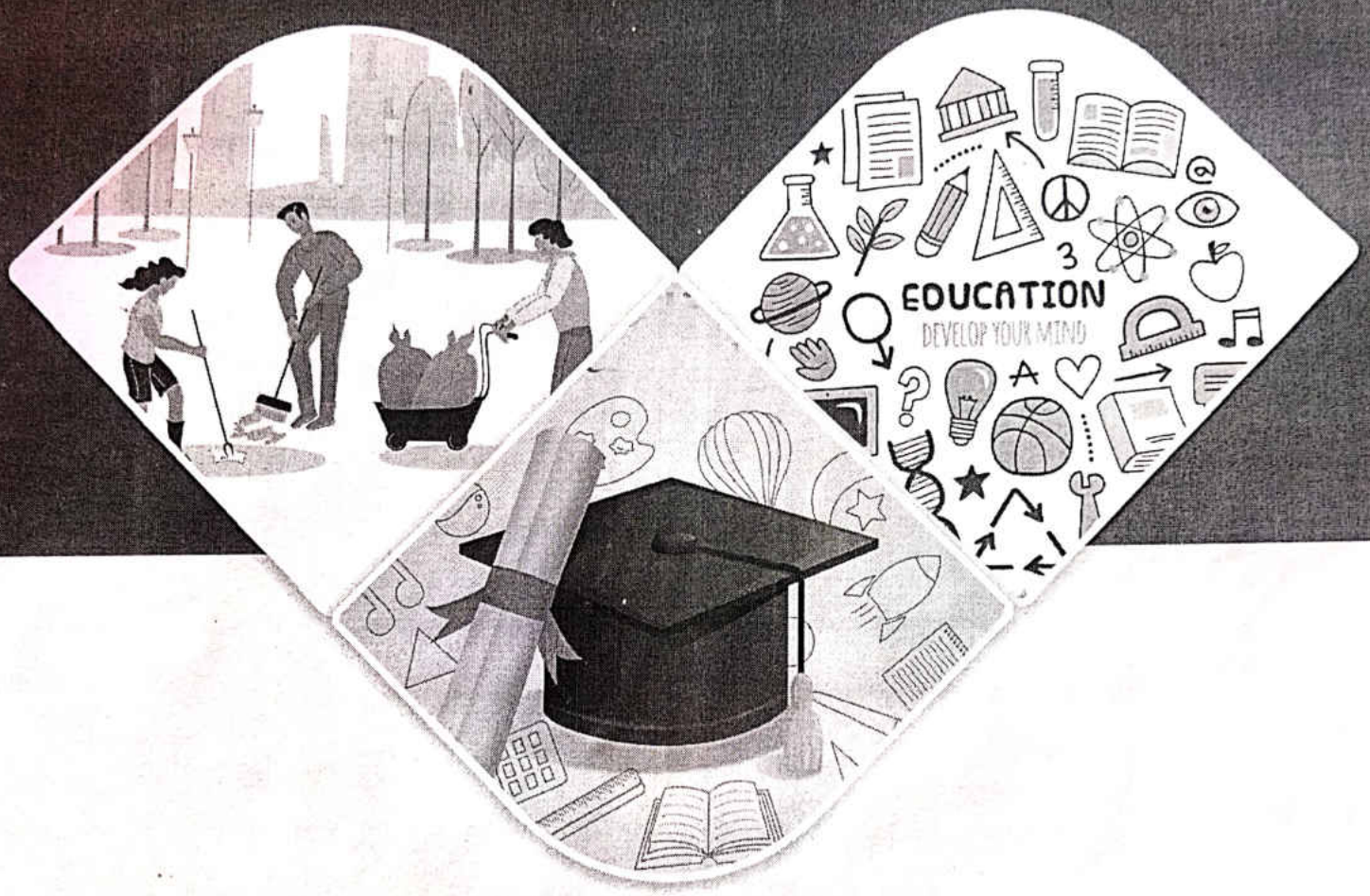
Model Program Book



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: ADIVARAPU. RAJA. KRISHNA. NIKHIL

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

Registration Number: 2022001049001

Period of Internship: From 12-12-22 16-03-23

Name & Address of the Intern Organization Fisheries development office, ilisipuram, 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. Ravi babu Sir

(Name of the Faculty Guide)

Department of

Zoology, Government degree College (men) Skm.

(Name of the College)

Submitted by:

[redacted] ADIVARAPU. RAJA. KRISHNA. NIKHIL

(Name of the Student)

Reg.No: 202001049001

Department of Zoology

Government Degree College (men), Skm.

(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.

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.

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Student's Declaration

I, A.R.K.Nikhil a student of Internship Program, Reg. No. 2022001049001 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.Ravibabu Sir (Name of the Faculty Guide), Department of Zoology, Government Degree College (men) Srikakulam (Name of the College)

Aknikhil / 16-03-23
(Signature and Date)

Official Certification

This is to certify that A.R.K. Nikhil *(Name of the student)* Reg. No. 202200104900l 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 (F.M) in the Department of Govt. Degree College (Men) *(Name of the College)*.
Srikakulam

This is accepted for evaluation.

Fisheries Development Officer
Dt.....
Srikakulam

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

Endorsements

Faculty Guide

Head of the Department

Principal

Certificate from Intern Organization

This is to certify that A.R.K. Nikhil *(Name of the intern)* Reg. No 2022001049001 of Govt. degree clg (men) *(Name of the College)* underwent internship in Department of Fisheries *(Name of the Intern Organization)* from 12/12/2022 to 16/03/2023

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

Fisheries Officer
DL
Srikakulam

Authorized Signatory with Date and Seal
E.I.D. No. 0104 154
Fisheries Development Officer
Srikakulam Dist

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 indentify innovative for strengthing fisheries management. The goal of fisheries management is to produce sustainable biological, environmental and socisenomic benefits from renewable aquatic resources. Resource conservation, food production. generation of economic wealth, generatio of reasonable income for fisheries. Maining employment for fisheries, maintain viability of fishing communities are main objectives of fisheries management. Do's and Don't's 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 include prime minister matsya sampada yojana from govt. scheme will strive promote ssiseconomic welfare of fisheries and fist farmers by providing boats, nets, safety kits, nutritional support to fisherman families during fishing bars 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 innovative, cost fishery 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 maintainance, water quality of pond etc; Majr carps include catla, Rohu, mrigal and about their rearing and feeding habits and management capacity of secretarial of agriculture, live stock, fisheries and food, particularly these functins required. Local and foreign techniques for testing quality, salinity of water, skills acquired during project include management of fishes, lab 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 affected by various factors in pond.	
Day - 2	Soil and water :- The soil type of pond and its fertility is necessary.	It controls pond stability, pH salinity of water.	
Day – 3	Aquatic weeds :- They not only take away nutrient but also upset a balance	If left unchecked may choke water body poing to serious to fishes.	
Day – 4	unwanted fishery production They may be unwanted fish and predators were the	They compete with culture fish from feed nutrient.	
Day – 5	Liming : Liming should be done to ponds based on variety of culture	Liming includes ($CaCo_3$) (Ca mg) ($(Ca_3)_2$)	
Day – 6	Fertilisers : 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 pond :- opt. size of the pond is rectangular with size varying from 0.1 - 2.0 hectares with dept. range from 2.0 to 3.0 metres. The soil type of pond and its fertility status for fresh water fishes especially crop is alluvial soil with neutral p^H range between 7.5 - 8.0 The p^H has brought to neutral if the pond soil and water are saline, alkaline.
The aquatic weeds in fish pond are undesirable they not take away nutrients but also upset oxygen balance in water by release $(o_2$ in to pond during nights.
The unwanted fishes (or) predators may be predatory. They can be eliminated through repeated netting of pond.
The type of time table used depend on water p^H. It is recommended the lime/ Organic fertilizers such as compound fertilizers like ammonium phosphate 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 introduced for breeding season	Released egg (1-10 days) is known as spawn.	
Day - 2	spawn - (20-25 days) is called fry (30;40) - advanced fry.	Fry should shifted to rearing tank.	
Day - 3	Stupted fingerlings : High amount of density culture called stunted fingerlings.	High priority given for this.	
Day - 4	Feeding : General feed should given at morning and evening routine.	on 6th day food protein - egg feed.	
Day - 5	Water mangement : Measur should be taken to ensure adequate water soil quality.	Measures should be adapted to prevent fish from stress.	
Day - 6	Kacha nursery : Advance fry added to kacha nursery.	For good manage-ment pratism.	

WEEKLY REPORT

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

Objective of the Activity Done: selecting and stocking of crops

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 introduce in to particular pond depends very much in their size bigger than size. It should have size of 10-15cm. 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 20-35°c. Obviously temperature below 35°c will affect the growth of fish. Feeds for the crops may be are of 2 types: Natural, Artificial feeds and probiotis 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 jaw.	Rearing : (U-column)	
Day - 2	Feed : Fingerling :- Consume some plankton algae, zoo-plankton.	Adults feed mainly on the surface.	
Day - 3	Rohu : colored fish with dark scales on its upper body.	Rearing (M-column)	
Day - 4	Feed : zooplankton phytoplankton	Feedwale growth booster helps in fast growth.	
Day - 5	Mrigal : It is a ray finned fish, covered with cycloid scales, snout	Rearing (B-column).	
Day - 6	Feed : Plankton feeder, debris found in bottom.	Bottom feeders.	

WEEKLY REPORT

WEEK – 3 (From Dt.27/12/22 to Dt.03/01/23.)

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 had large greyish scales on its dorsal side and whitish on its belly. It reaches up to 180cm in length and 38 kg wt.

- It is a surface and midwater feeder.
- Adults feed on zooplankton and phytoplankton.

Rohu fish :-

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

- Feed is in form of pellet, protein etc.

Mrigal fish :-

Mrigal fish are long, upper lip covered to down, pair at trunk, body is silver coloured. Avg body length a bout meter.

- Feed is bottom based feeders.
- Eat small insects, decomposed organic elements.

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.	
Day - 2	pH meter :- It measures hydrogen ion activity in water.	Neutral : $pH = 7$ acidic : $pH < 7$ Basic : $pH > 7$	
Day - 3	Nitrate test :- Indicates high nitrate levels in pond.	Low nitrate : Improves health of fish.	
Day - 4	Test :- 5 drops of reagent A & B in a test tube & shake it well.	Red (or) pink : Nitrate reduction Red - violet : presence of nitrate.	
Day - 5			
Day - 6			

WEEKLY REPORT

WEEK – 4 (From Dt.04/01/23 to Dt07/01/23.)

Objective of the Activity Done: Laboratory

Detailed Report: Salinometer

It is a device used to measure salinity (or) dis-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 solutions.

Indicates acidity of solution.

Neutral solution : pH = 7

Acidic solution : pH < 7

Basic solution : pH > 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 drop of reagent A & B in test tubes & shake it well.

Red/Pink - Nitrate reduction

Red/violet - Presence of nitrite.

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 factor in selection of juveniles.	Dont's :- Stocking should n't be check quality of fry.	
Day - 2	Fodder: Fresh fodder with good nutritional value should be selected and purchased.	Dont's :- Fodder should not be fed without calculating FCR.	
Day - 3	water ownership: Before stock water quality should be test in lab.	Dont's :- Without testing quality shrimp fry should not be released.	
Day - 4	Aeration :- Additional aeration must be properly arranged because few shrimps required lot of vital.	Dont's :- High density cultivation should not be done without aeration.	
Day - 5	Health ownership: Biosecurity arrangements should be regularly reviewed.	Dont's :- The fence around pond and bird net should not be torn.	
Day - 6	Hed : Planning should be done based on market demand.	Dont's :- Don't caught without paper planning caught on first mon dall.	

WEEKLY REPORT

WEEK – 5 (From Dt.09/01/23.. to Dt.18/01/23..)

Objective of the Activity Done: Do's and Don't's in culture

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

Dont's:- shrimp fry should not be purchased from hatcheries not licensed by CCA.

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

Dont's:- Do not use cheap fodders.

Water ownership: check standard range O_2 & P^H should be checked every morning/evening.

Dont's:- In saline ponds there is no need to adds minerals every week.

Aeration:- Depending on no. of aerations pond should be arranged in a circles.

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

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 takenup from the process of spawning to fullsize.	Farms have breeding tanks, hatcheries, nursery, rearing, production ponds.	
Day - 2	Restricted fish farming :- culturing any one stage in life cycle of fish.	Ponds are concerned only for production of spawn/seed 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 :- Fishes are provided with artificial seed.	Achieving maximum productivity by giving artificial food.	
Day - 5	Traditional fish culture :- Most common method of fish culture.	Artificially constructed ponds where finishes and shell fish are reared.	
Day - 6	Semi-intensive fish farming :- Both natural and artificial feed supplied to fish.	If required inputs of fertilizers and supplementary feeding.	

WEEKLY REPORT

WEEK – 6 (From Dt 19/01/23 **to Dt** 25/01/23.)

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

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 ponds 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.

Traditional fish farming are common method of fish culture where artificially constructed ponds where the aquatic animals such as the finfish and shell fish are reared, Semi intensive fish farming requires a moderate levels of inputs and fish production is increased by use of fertilizers and supplementary feeding.

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 × 1.5 m³.	Tanks used for breeding the prawns and larval development.	
Day - 2	Selection and transport of breeders prawns measuring about 18-20 cm.	Fully grown and sexually mature breeder prawns are used.	
Day - 3	Prevention from parasitic infection: By chemical Bath.	chemical bath & supply of sterilized feed prevents infection.	
Day - 4	Feed: Green algal cells without parasitic infection are provided.	Green algal cells are provided as feed.	
Day - 5	Stocking :- 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	Breeding and spawning :- occurs during night time just 60cms above the bottom.	Mating can be said to have occurred by presence of sperm on top back of female	

WEEKLY REPORT

WEEK – 7 (From Dt. 27/01/23 to Dt. 02/02/23)

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

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 mangement 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 prawns measuring about 18-20cm 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 chemical bath to prevent parasitic infections and provided with sterilised seed. 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 perrineal water source.	It is the main pond suppling water to different ponds.	
Day - 2	Hatching ponds :- constructed near the main culture pond.	Fertilised egg develop into fry stage in these ponds.	
Day - 3	Nursery Ponds :- About 4 to 5 nursery ponds of 15×15×1.2 m size constructed.	Fish fry of 3-4 days age is released into these ponds.	
Day - 4	Rearing ponds :- are 25×10×1.5 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 natural 91×50×3.5 m in size.	Small fishes are grown up to maximum size.	
Day - 6	Stocking Ponds :- Size 25m×10m×1.75m.	Fully grown fishes & breeder are stocked till they are disposed.	

WEEKLY REPORT

WEEK - 8 (From Dt: 03/04/23 to Dt: Dt: 09/04/23)

Objective of the Activity Done: Various types of ponds

Detailed Report: Fish farm necessary for artificially culture should posses 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. Fertilised eggs are developed into fry stage in hatching ponds. Hapa 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. Fish fry of 30 days age are further grown in rearing ponds of 0.5 x 10 x 1.5m size.

These fishes & breeders are stocked in stocking ponds till they are disposed off for specific purposes.

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 poikilothermus siganism.	Temperature has influence on growth, respiration & reproduction.	
Day - 2	Depth of ponds:- Physio-chemical factors changes basing on depth of the pond.	Light cannot penetrated too deep. resulting in absence of producers.	
Day - 3	Turbidity:- clay, sand and other floating particles reduce the transparency of water.	Prevents penetration of light, flood water is highly turbid.	
Day - 4	Light:- Penetration of light into water depends upon intensity of light.	Aquatic plants, planktons, silts, prevent the penetration of light.	
Day - 5	Water currents:- Fishes generally breed only in flowing water.	Hence waves & water currents formed due to the exit of water.	
Day - 6	Shore 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 18/02/23 to Dt 17/02/03..)

Objective of the Activity Done: Influence of physical factors in

Detailed Report: fish ponds.

Prime physical factors of the pond influencing the productivity are temperature, depth of the pond, transparency of water, light and water moments.

Temperature has influence over respiration, growth, and respiration of fishes. Here are pikila thermous organisms whose body temperature changes in accordance with the temperature of the medium.

If a pond has lengthy shore it is useful for growth of aquatic plants due to more light availability it increases yield.

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 substances.	pH of 6.8 - 9.0 result in high productivity of pond.	
Day - 2	Dissolved oxygen: Depleted oxygen is regenerated from photosynthesis.	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 and over concentrations 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 bollerial hardness of 15 ppm, slows growth at less than 5 ppm.	
Day –6	Other chemicals: - $CaCO_3$, nitrates, ammonia, sulphates and phosphates.	$CaCO_3$ necessary for growth of bones. Raising nutrients enhance the no. of phytoplanktons.	

WEEKLY REPORT

WEEK – 10 (From Dt. 20/07/23 to Dt. 27/07/23)

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

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

P^H of 6.8-9.0 results in high productivity of the pond deficiency of water, rain water, turbid water decreases the P^H and increases acidity. A P^H of less than 6 and 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 areators. Co_2 is required for photosynthesis is but over concentration of Co_2 may result in causing mass mortality of aquatic organisms.

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:- cultivating fish in association with others agriculture & poultry	Fish wastes fertilise the crop fields while wastes from crops & Poultry chicks by fish.	
Day - 2	Fish - prawn culture: prawn can be cultured in ponds primarily meant for carp culture.	Excreta 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 above waterlevel of pond.	This facilitates the direct fertilization of pond by droppings of chicks.	
Day – 4	Rice - Fish cultured simultaneously: Rice varieties ADT6, ADT7, Raja rani are used.	Channa striatus, darius, calla are generally grown along with rice in fields.	
Day – 5	Rotational Rice & fish culture: Rice fields are converted to fish culture ponds after harvesting.	Soil become fertile with excretes of fish improves rice yield.	
Day –6	coconut (or) Banana in fish culture: canals in between the rows of plants are utilised for fish cultures.	It provides continous water to plants & utilisation of space & gives additional income.	

WEEKLY REPORT

WEEK - 11 (From Dt. 28/02/23 to Dt. 06/03/23)

Objective of the Activity Done: Integrated fish farming technology.

Detailed Report: culturing the fish in association with agriculture & ducks & chicks & pigs & prawns is called integrated fish & mixed culture. Fish wastes are fertilise 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 ment for carp culture. carps are not predators, their excreta forms food for prawns.

Same technique can also used in coconut & banana. Fish culture where canals are constructed rows of plants.

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 fexi bacteria.	Characteristic growth of white cotton like filaments around the mouth.	
Day - 2	Furunculosis :- This is caused by infection of aeromonas salmonicida.	Blisters with water & pus are formed at the site of infection such as skin.	
Day - 3	Tuberculosis :- This is due to infection by myco-bacteriums.	Disease is identified by finrot, wounds on body blisters, loss of weight fin's	
Day - 4	Dropsy :- Initially it is due to viral infection and secondary infection by bacteria	Bulging of belly due to acculation yellow colour liquid in body cavity, scales Projected.	
Day - 5	columnaris :- This is due to infection of bacteria chondrococcus columnaris.	Identified by formation of spots over body, Scales fall off & mass mortality of fish.	
Day - 6	Prophylactic measures :- By using antibiotics & probiotics we can prevent infection.	Chemical bath of infected fish and using antibiotics fishes can be used.	

WEEKLY REPORT

WEEK – 12 (From Dt.27/03/23. to Dt.15/03/23.)

Objective of the Activity Done: Bacterial diseases & prophylactic measures

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 less after cultivators.

Cotton mouth disease, furunculosis, fin & tail rot disease, tuberculosis, Dropsy, edwardsiella are the various bacterial 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 these bacterial diseases their symptoms very different bacterial diseases.

Prophylactic measure:-

General drugs used to cure the disease are sulphonilamide, sulphadiazine, sulpha marizine etc.

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 (&) 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. The office more comfortable and improve your communication. The office is more comfortable impro my communication. I feel there is a good interaction at dept. min facilities to learn there is enough. They fix time from 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 career 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 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.
- Internships are introduce 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 fields to offer the host employees.
- Segregating ourself with other interns to hands out with other interns and make sure to establis a good work relationship with others.

Student Self Evaluation of the Short-Term Internship

Student Name: ADIVARAPU. RAJA. KRISHNA. NIKHIL **Registration No:** 20220010490001

Term of Internship: From: 12/12/22 To: 16/03/23

Date of Evaluation: 16/03/23

Organization Name & Address: Fisheries development office, Thiruvananthapuram, Vikasbhavan

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:

Akhil

Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Student Name: ADIVARAPU · RAJA · KRISHNA · NIKHIL Registration No: 2022006490d

Term of Internship: From: 12/12/22 To: 16/03/23

Date of Evaluation: 16/03/23

Organization Name & Address: Fisheries development Office, Idupulapaya, Srikakulam

Name & Address of the Supervisor with Mobile Number K. Gangadhar Rao, 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**

Fisheries Development Officer Dt..... Srikakulam

Date:

Signature of the Supervisor (K. GANGADHAR RAO)
E.I.D. No: 0104 104
Fisheries Development Officer
Srikakulam Dist


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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

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.

INTERNAL ASSESSMENT STATEMENT

Name Of the Student: ADIVARAPU. RAJA. KRISHNA. NIKHIL
Programme of Study:
Year of Study: 2020-2023
Group: CBZ (EM)
Register No/H.T. No: 202200104901
Name of the College: Govt. Degree College (Men) Srikakulam
University: Dr. BR. 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: ADIVARAPU · RAJA · KRISHNA · NIKHIL
Programme of Study:
Year of Study: 2020-2023
Group: BZC (EM)
Register No/H.T. No: 202200104900l
Name of the College: Govt. 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

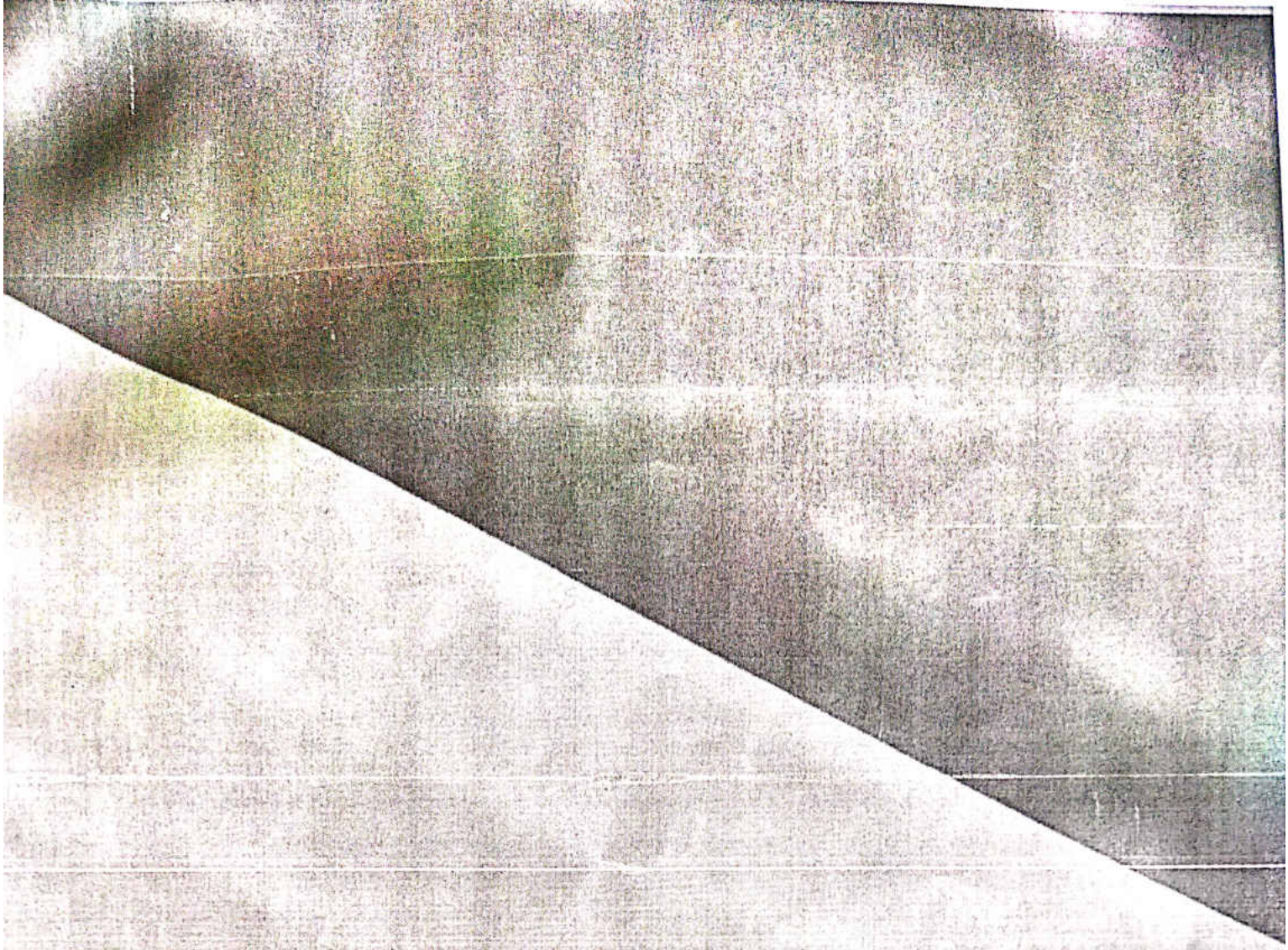
Signature of the Internal Expert

Signature of the External Expert

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

Fisheries Development Officer
Dt.
Srikakulam

Signature of the Principal with Seal



ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION

(A Statuory Body of the Government of Andhra Pradesh)

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