

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: A. Rajyalaxmi

Name of the College: Govt. degree cly (Men) Srikakulam

Registration Number: 2022001049002

Period of Internship: 4 months From: 12/12/2022 To: 16/03/2023

Name & Address of the Intern Organization

Dr. B. B. Bedekar **University**
YEAR

An Internship Report on

fisheries department office (SKLM)

(Title of the Semester Internship Program)

Submitted in accordance with the requirement for the degree of

Under the Faculty Guideship of

Dr. pramella

(Name of the Faculty Guide)

Department of

Government Degree college (men) SKLM

(Name of the College)

Submitted by:

A. Rajalakshmi

(Name of the Student)

Reg.No: 2022001049002

Department of B.Sc B7C Zoology

Government degree college (men) SKLM

(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. Rajyalaxmi a student of Interchip

Program, Reg. No. 2022001049002 of the Department of PDO

College do hereby declare that I have completed the mandatory internship

from 12/12/22 to 16/03/23 in dept. of fishers (Name of

the intern organization) under the Faculty Guideship of

Dr. Praveela (Name of the Faculty Guide), Department of

B.Sc B.Z.C, Gout. degree coll (w) sikh

(Name of the College)

A. Rajyalaxmi

(Signature and Date)

16/03/2023

Official Certification

This is to certify that A. Rajyalakshmi (Name of the student) Reg. No. 2022001049002 has completed his/her Internship in FDO (Name of the Intern Organization) on Fisheries Department Office (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc BZC in the Department of Govt degree clg (un) SKM (Name of the College).

This is accepted for evaluation.



Endorsements

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

Faculty Guide

Head of the Department

Principal

Certificate from Intern Organization

This is to certify that A. Rajyalakshmi (Name of the intern)
Reg. No. 2022001049002 of Gout degree clg (un) skh (Name of the
College) underwent internship in Fishery department office (Name of the
Intern Organization) from 12/12/22 to 16/03/23

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



(K. GANGADHARA RAO)
Authorized Signatory with Date and Seal
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 sense of gratitude. I acknowledge the inspiring, guidance, positive criticism and encouragement rendered by respectable for me through the period of his investigation and preparation of the project. I am really indebted for his valid suggestions, advice and help in collecting the project.

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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 initiative for strengthening fishers management

The goal of fisheries management is to produce sustainable biological environment and socioeconomic benefits from renewable aquatic resources. Resource conservation and production generation of reasonable income for fisheries sustaining employments for fisheries communities are main objective of fishing and stocking of early, 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 Milkkan is located at Karamanna street, Ilinupam, skill promotion and the development of fishing and fishers 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 organization. schemes include prime minister Matsya kampade yojana, govt of fishers and fish nutritional support to fisherman families during fishing ban 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 mechanism for strengthening fishery management capacity in accord with strategic centre, modernize the role of public sector in this we have learned about the pond management collection of shrimp finger given to fish, record maintenance water quality of pond etc, major crops in clude catla, Rohu, Mrigal and about their rearing and feeding habits and management capacity to secretariat of aquaculture, live stock, fishers and food particularly those functions required, sustainability of water supply arrived during project include management of fishery, 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 reared in pond can be affected by various factors in pond	
Day -2	soil and water the soil type of pond is fertile in necessary	It controls pond otobility main lity of water	
Day -3	Aquatic weeds they not only take away nutrients but also O ₂ balance	If left unchecked they may choke water body posing to many fishes	
Day -4	unwanted fish they may be unwanted fish and predator there	they compete with culture fish for feed nutrients	
Day -5	liming liming should be done to ponds based on variety of culture	liming includes (CaCO ₃) (CaMg CO ₃) ₂	
Day -6	fertilizers plays a crucial role in fish culture	Ammonium phosphate (20-30kg/ha)	

WEEKLY REPORT

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

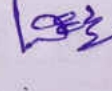
Objective of the Activity Done:

Detailed Report: preparation of pond:- opt size of the pond is rectangular with size varying from 1-2.0 ha. area with a range of 100m from 20 to 300 m. the soil type of pond and its drying status for fresh water fishes especially crop is alluvial soil with natural pH range b/w 7.5-8.0 the pH has brought to natural if the pond soil and water are saline alkali. the aqual weeds in fishpond 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 netting of pond.

The type of lime to be used depend on water pH it is recommended the lime organic fertiliser compound especially like 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 introduced for breeding season	Selected egg (1-10 days) is known as spawn	
Day -2	Spawn - (20-25 days) Fry should be called fry (30:40) advanced fry	Shifted to rearing tank	
Day -3	Stunted fingerlings High amount of day 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 probecion - egg feed	
Day -5	Water management must should be taken to morning soil quality	measures shall be adopted to protect from stress.	
Day -6	Kacha Nursery : Advance fry added to Kacha Nursery.	for good management practice.	

WEEKLY REPORT

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

Objective of the Activity Done:

selecting and stocking of crops

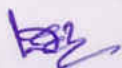
Detailed Report:

selection: About 15-20 days after the initial monivung selected species to crops are introduced into pond when several species fishes are reared together in pond in an intensive way.

The survival of fingerling introduced into particular pond depends very much on 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 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 one of 2 types. Natural growth of feeding in pond can be increased by regular weaning.

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 of major crops i. catla; large and brood seed, prof running grow	Rearing (U-column)	
Day - 2	feed:- fingerlings consume plankton euryone zooplankton	Adults feed mainly on the surface	
Day - 3	Rahu:- coloured fish with dark scales on its upper body.	Rearing (M-column)	
Day - 4	feed:- zooplankton Phytoplankton	feed wale growth booster helps in fast growth.	
Day - 5	Wriggal:- It is a ray finned fish covered with cyclops and snail about Bunt.	Rearing (13-column)	
Day - 6	feed:- plankton feeder, debris found in bottom	Bottom feeders	

WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objective of the Activity Done: Introduction of major carp

Detailed Report: catla fish:-

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

- Adults feed on zooplankton and phytoplankton.
Rahu fish:-

Rahu fish has snake 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, proteinetic.
Mirgal fish:-

Mirgal fish are long, upper lip curved to form pair at trunk, body is olive coloured. Any body length about 1 meter.
- feed in 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 in acidity in water	Neutral:- $pH = 7$ Acidic $pH > 7$ Basic $pH < 7$	
Day - 3	Nitrates:- Indicate high nitrate levels in pond	Low nitrate improves health of fish	
Day - 4	Test:- 5 drops of reagent A/B in test tube and observe the color.	Red (or) pink nitrate reduction Red violet presence of nitrite	
Day - 5			
Day - 6			

WEEKLY REPORT

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

Objective of the Activity Done: Laboratory

Detailed Report: salinometer

It is a device used to measure salinity (or) diss content of solution

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

pH meter:-

A pH meter measures hydrogen activity in water based solutions

Indicates acidity of solution

Neutral solution $\text{pH} = 7$

acidic solution $\text{pH} < 7$

Basic solution $\text{pH} > 7$

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

Test:- drop test reagent A/B in test tubes is well.

Red/pink - Nitrate reduction

Red/pink presence of nitrate.

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 to test IM factor & selection of juveniles	Don't's:- stocking should be checked quality of fry	WZ
Day -2	feeding:- fresh fodder with good nutritional value should be selected and purchased	Don't's:- fodder should not be fed without calculating per.	WZ
Day -3	water ownership:- Before stock water quality should be tested in lab	Don't's:- without testing quality shrimp fry should not be released	WZ
Day -4	aeration:- Additional aeration must be proper arranged because few shrimps require lot of	Don't's:- High density culture fry should not be aeration	WZ
Day -5	Health ownership:- Biosecurity or range must should be regularly reviewed	Don't's:- The fence around pond and bird nest should not	WZ
Day -6	Harvest:- planning should be done based on market demand	Don't's:- Don't caught without proper planning caught on full.	WZ

WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Don'ts in culture

After stress tests, microscopic and per tests for shrimp quality need is selected and stocked

Don'ts:- shrimp fry small not be purchased from hatchery is not lined by sea

fodder:- fresh fodder with good nutrient value should be selected.

Don'ts:- do not use cheap fodders.

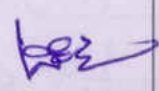
water ownership:- check standard range o, ph should be checked every morning / evening.

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

Aeration:- depending on no of aeration pond should be arranged in 2 circles.

Don'ts:- same tools used in 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	complete fish farming:- many have culture is taken from the paces growing full time	breeding tanky holichis nursery rearing, production	
Day - 2	semi intensive fish farming:- Pondy are rearing culturing any one stage only for production in life cycle of fish of spawn breed		
Day - 3	Extensive fish farming:- fish depend upon the natural feed for growth	Productivity is directly proportional to available natural	
Day - 4	Intensive fish farming:- fishes are provided with artificial feed	Achieving Max production by providing artificial food	
Day - 5	Traditional fish culture:- Most common method of fish culture	artificially constructed ponds where fish and shell fish	
Day - 6	semi intensive fish farming:- Both natural and artificial feed supplied to fish	it requires input of feed, fertilizers and supplementary	

WEEKLY REPORT

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

Objective of the Activity Done:

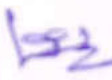
Detailed Report: Bestrites traditional ways fish is cultured in artificial ponds to meet internal and external demand by regulating nutritional needs, growth and breeding efforts are made to achieve high produce productivity

Complete fish farming culture is taken up from the process of spawning to the stage of breeding larva, hatching nursery ponds rearing ponds production ponds etc. Restricted fish farming is culture any one of the stage in the life cycle of fish in the ponds concerned with high yield

Extensive and intensive farming techniques are fish depends on natural feed and artificially feed or growth and survival respectively

Traditional fish farming are common method where the aquatic animals such as the finfish and shell fish are raised semi intensive fish farming requires a moderate levels of inputs and fish production is increased by use of 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 5x1.5 m ²	tanks used for breeding the prawn and larval development	
Day -2	Selection and transport of Breeders prawn measuring about 18-20 cm	fully grown and sexually mature breeder prawn used	
Day -3	Prevention from proper infection by chemical Bath	chemical bath supply of sterilized feed prevent infections	
Day -4	feed: Green algal cells without parasitic infection are provided	Green algal cells are provided as feed	
Day -5	Stocking: Start to add prawns are stocked for breeding in above tanks	Ratio of male and female shrimp are 1:1 or 1:2	
Day -6	Breeding and spawning: occurs during night time just 60 cm above the bottom	mating can be said to have occurred by the sperm over lying of female.	

WEEKLY REPORT

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

Objective of the Activity Done: management of hatchery tanks in

Detailed Report: Prawn production

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 0.5 to 1 tonne capacity or cement tubes with an area of $5 \times 1.5 \text{ m}^3$ fully grown and nearly 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 $\frac{1}{3}$ marine water and $\frac{2}{3}$ oxygen.

selected breeders are given chemical bath to prevent parasitic infections provided with retorted feed Green algal cells without parasitic infection are provided as feed. Ratio between male and female prawns is maintained at 1:1 or 1:2 to facilitate the females release large number eggs.

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Renovator or head ponds: these are constructed near penicillal water ways.	It is the main pond supplying water to different ponds	BSZ
Day - 2	Hatching ponds: constructed near the main culture pond	Fertilized egg develop into fry stage in these ponds.	BSZ
Day - 3	Nursery ponds: about 4 to 5 nursery ponds of 15x15x1.2M size suitable	Fish fry of 3-4 days age is released into these ponds for growing them	BSZ
Day - 4	Rearing Ponds: are 25x10x1.5M size 10-12 ponds are constructed	Fish fry of 30 days are further grown in rearing ponds.	BSZ
Day - 5	Production ponds: these are penicillal in nature 91x50x1.5CM in size	Small fish are grown up to maximum size	BSZ
Day - 6	Stocking Ponds: size 25M x 10M x 1.75M	Fully grown fishes breeders are stocked till they are fixed	BSZ

WEEKLY REPORT

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

Objective of the Activity Done: Various types of ponds

Detailed Report: Fish farm necessary for aquaculture should possess 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 30 days age are further grown in hatching ponds of $25 \times 10 \times 1.5$ M size. These are generally stocked in high density about 6 monthly or one year these fishes are introduced into production ponds up to attaining maximum marketable size. These fishes breeders are stocked in stocking pond 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 poikilotherms organisms	Temperature has influence on growth Respiration Reproduction	WSS
Day -2	Depth of Pond: Physio chemical factors change basing on depth of the pond	Light cannot penetrate too deep resulting absence producers	WSS
Day -3	Turbidity: clay and other floating particles reduce the transparency of water	Prevents penetration of light if flood water is highly turbid	WSS
Day -4	Light: penetration of light into water depends upon intensity of light	Aquatic plants plankton etc prevent the penetration of light	WSS
Day -5	Water currents: fishes generally breed only in flowing waters	Hence wavy water currents are needed due to the effect on water productivity	WSS
Day -6	Shore conditions: a wide pond increases the area of water	Aquatic plants along the shore are able to synthesize photosynthesis	WSS

WEEKLY REPORT

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

Objective of the Activity Done: Influence of physical factor 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 movements.

Temperature has influence over respiration growth and reproduction of fishes. These are poikilotherm organisms whose body temperature changes in accordance with the temperature of the medium. Rise in temperature reduces the dissolved oxygen content. The ideal pond should have a 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 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 oxygen creation of oxygen	
Day -3	Carbon dioxide: it is released by aquatic organisms respiratory process.	CO ₂ required for photosynthesis over compensatory CO ₂ kill fish	
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	Grow better of hardness of 15ppm along growth at less than 5ppm	
Day -6	Other chemicals: CaCO ₃ , Nitrates ammonia, cuprous & phenols	CaCO ₃ necessary for growth of bones requiring nutrients & chlorine	

WEEKLY REPORT

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

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 results in high productivity of the pond. If the pH of water, rainwater, or turbid water decreases the pH and increases acidity, a pH of less than 6 & more than 10.8 results in mortality of the organism and regeneration of oxygen. 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. Five essential salts formed of Na, K, Mg, Ca, Fe in the form of sulphates, phosphates, nitrates, and carbonates. Organisms grow better at a hardness of 15 ppm. Sulphates & phosphates are necessary.

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 Advantage: culturing fish in association with other agricultural poultry	fish waste fertilize the crop field while waste from crops poultry	KEZ
Day -2	fish-prawn culture: Prawn can be cultured in ponds primary unit for carp culture	extra of carp from food for prawns extra in we can earn	KEZ
Day -3	fish-poultry: here poultry form is confined over a platform built of bamboo/leaves pond	This facilitates the direct fertilization of pond by dropping of droppings.	KEZ
Day -4	Rice-fish cultured simultaneously: Rice varieties MT6, MT7, for 10 rain are used	channa striatus clarus catla are generally with rice in different	KEZ
Day -5	Related Rice fish culture Rice fields are converted to fish culture ponds	soil become fertile with excretion of fish improve rice yield	KEZ
Day -6	Coconut (or) Banana: fish culture: canals in between the rows of plants are wished for fish	It provides continuous water to palm utilisation of space and glues	KEZ

WEEKLY REPORT

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

Objective of the Activity Done:

Integrated fish farming technology

Detailed Report:

culturing the fish in association with agriculture or ducks or chicks or pig or prawns is called integrated fish or mixed culture. Fish wastes are utilized. The crops and poultry chicks are used as feed by fish. Individually these techniques yield multiple produce of nutritional value and economic significance.

Prawns can be cultured in ponds primarily meant for crop culture. Carps are not predators. Their excreta forms food for prawns. This yields additional income of Rs 10,000 per hectare. Fish-poultry is also a better integrated farming as poultry wastes are used as food for fish.

Rice-fish culture can be done in two ways. Either both of ditches are constructed in rice fields where fish can be grown. The selected fish varieties should withstand high temperature and low depth conditions. The rice varieties with withstanding flood conditions are generally needed.

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 <i>Leishmania</i>	character growth of white cotton like filaments around the mouth	
Day - 2	furunculosis: This is caused by infection of <i>Aeromonas salmonicida</i>	Blisters with water as pus are formed at the site of infection such as	
Day - 3	tuberculosis: This is due to infection by <i>Mycobacterium</i>	disease is identified by finrot wounds on body blisters loss of weight	
Day - 4	dropsey: Initially it is due to viral infection secondary infection by <i>Bacterium pumclata</i>	Bulging of belly due to accumulation yellow colour liquid in body	
Day - 5	columnaris: This is due to infection of <i>Aeromonas columnaris</i>	identified by formation of nodule over body scales fall of mucus	
Day - 6	Prophylactic measures: By using antibiotics Probiotics we can prevent infection	chemical bath of infected fish using antibiotics fish can be cured	

WEEKLY REPORT

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

Objective of the Activity Done:

Bacterial diseases & prophylactic measure

Detailed Report:

Bacteria, virus, protozoans are common parasites seen harbouring the fish infection by pathogens cause a reduction of growth & some times death of fish which leads to loss for cultivator.

Cotton mouth disease, furunculosis, fin rot disease, Tuberculosis, droopy, columnaris are the various bacterial disease of fishes. Their symptoms are like wounds on body blisters over the internal organs peels over the body, Broken fin rays, cotton mould at mouth & may mortality of fishes also sometimes seen due to these bacterial diseases. Their symptoms very different bacterial diseases.

Prophylactic measures:- General drugs used to cure the disease are sulphamylamide, sulphide, sulphamerazine etc. Infections can be prevented by mixing antibiotic like chloramphenicol, tetracycline, erythromycin etc. chemical bath of infected fishes cure the disease frequently.

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 leaning and doing job (or) any other work. Good environment is always boost up your interest. A working environment is the setting social feature and physical feature in which you perform your job. These elements can impact feelings of well being workplace relationships, collaboration and efficiency and employee health. The office more comfortable and improving your communication. The work environment is good at fishery dept through positively influence entire work in environment the office is more 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 collection
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.

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

⇒ It teaches us to be great interns who know how to take decision

⇒ Showing willingness to learn work experience at fields to offer the host employer

⇒ Every learning opportunities that comes our way formalize ourselves with various aspects of related areas.

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 play case attio to 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 meeting in the internship.

Body language matters:-

This is for face to face meeting and for also video conference make sure that appear accessible 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.

The participating candidates will be assessed in terms of clarity of thought, expression and openness of language.

Important of Interpersonal skills:-

Interpersonal skills reflect ability of individual to interact with other members of group in a brief situation. Emotional maturity and balance promotes good interpersonal relationships.

The person has to be more centric and less self centered.

Importance of presentation skills:-

Presentation is an effective way to communicate a large no of people at one time.

Leadership skills:-

Ability to take leadership roles and lead inspire carry team along to help them achieve group purposes.

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 include equipment and practices used for finding harvesting handling processing and distributing of aquatic resources and their produce. Processing technology helps reduce food loss and waste thus reducing pressure 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 spend less time out of the water increasing their survival rate. Technology like Genologes and improving products online have been ever good as genotyping technology which is widely used lab equipment like salinometer pH meters helps in main to the equality salinity water before in production of fishes in pond for culture tests include nitrate test will help to identify nitrate levels in pond / in culture.

Student Self Evaluation of the Short-Term Internship

Student Name:	A. Rajyalaxmi	Registration No:	202200049002
Term of Internship:	From: 12/12/2022	To:	16/03/2023
Date of Evaluation:			
Organization Name & Address:	fishers department office, at Elispuram, srirakulam		

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:

A. Rajyalaxmi
Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Page No



Student Name: A. Rajyalaxmi

Registration No: 2022001049002

Term of Internship:

From: 12/12/2022 To: 16/03/2023

Date of Evaluation:

Organization Name & Address: Fisheries department office, SKM

Name & Address of the Supervisor K. Gangadharo P.D.O SKM
with Mobile Number 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



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



EVALUATION

Page No



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.

MARKS STATEMENT
(To be used by the Examiners)

Page No



INTERNAL ASSESSMENT STATEMENT

Name Of the Student: A. Rajyalaxmi

Programme of Study:

Year of Study: 2020 - 2023

Group: B.Sc BZCT.M

Register No/H.T. No: 2022001049002

Name of the College: Govt - degree college (un) SKLM

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: A. Rajyalaxmi

Programme of Study:

Year of Study: 2022 - 2023

Group: BZC T.M

Register No/H.T. No: 2022001049002

Name of the College: Govt. degree college (Men), Srikulam

University: Dr. B.R. Ambedkar University

SLNo	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: 0104104
Fisheries Development Officer
Srikulam Dist

Signature of the Principal with Seal



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

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