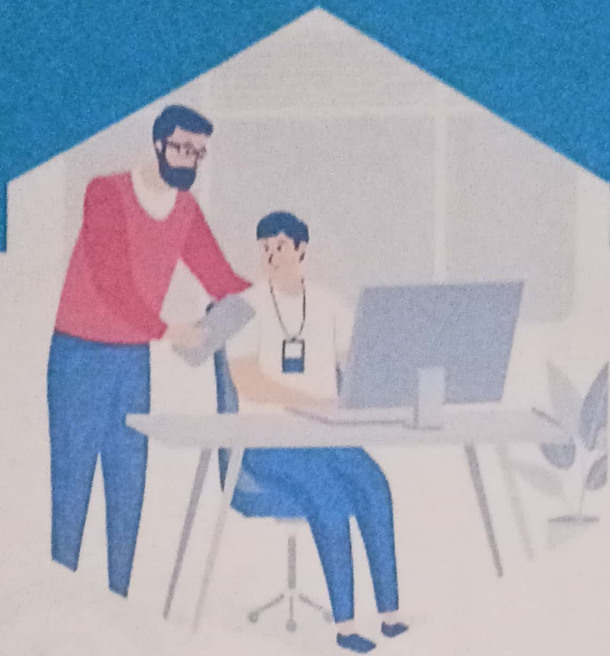


# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. A. Lakshmi Sanjaya ..... Reg. No. Y223158001...

of St. Ann's college for women ..... underwent Internship in Seeding of L-Arquingia. Producing bacteria

from May 2024 to June 2024 ..... The overall performance of the Intern during him / her Internship is found

to be Satisfactory .....

Date : 10/07/2024



Dr. Ch. Chiranjeevi

Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur- 522 034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**AMARESAM LAKSHMI SOWJANYA**

**Reg No: OAM202200194783**

**Hall Ticket No: Y223158001**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY**

**ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student: A Lakshmi Sowjanya

Name of the College: St. Ann's college for women.

Registration Number: Y223158001

Period of Internship: From: May To: June

Name & Address of the Intern Organization NEXUS RESEARCH INSTITUTE  
GUNTUR.

Acharya Nagarjuna University  
YEAR 2024



## Student's Declaration

I, A. Lakshmi Sowjanya a student of II BSc (BSc)  
Program, Reg. No. Y223158001 of the Department of Chemistry  
College do hereby declare that I have completed the mandatory internship  
from May to June in Nexus RESEARCH INS (Name of  
the intern organization) under the Faculty Guideship of  
Mrs. B. Joyce (Name of the Faculty Guide), Department of  
Dept. of chemistry, St. Ann's college for women  
(Name of the College)

A. Lakshmi Sowjanya  
(Signature and Date)



## An Internship Report on

L. Asparaginase

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSC

Under the Faculty Guideship of

B. TOYCE MAM

(Name of the Faculty Guide)

Department of chemistry.

St. Ann's college for Women

(Name of the College)

Submitted by:

A. Lakshmi Sowjanya

(Name of the Student)

Reg.No: Y223158001

Department of chemistry.

St. Ann's college for Women

(Name of the College)

Page No:



## 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 2 months (180 hours) of short-term internship either physically or virtually.
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.

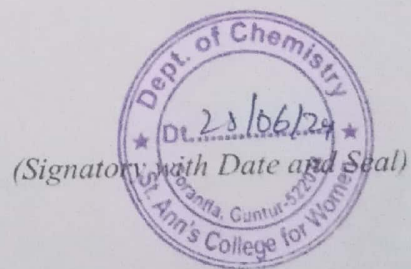
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## Official Certification

This is to certify that A. Lakshmi Sowjanya (Name of the student) Reg. No. Y223158001 has completed his/her Internship in REXUS RESEARCH INSTITUTE (Name of the Intern Organization) on L. Asparaginase (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC. in the Department of Biotechnology. (Name of the College). St. Ann's college for women

This is accepted for evaluation.



### Endorsements

Faculty Guide

Head of Dept. of Chemistry  
~~Head of the Department~~ Women  
GORANTLA, GUNTUR-522034.

PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

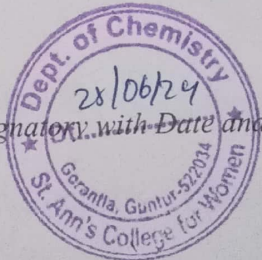


## Certificate from Intern Organization

This is to certify that A. lakshmi Sawjanya (Name of the intern)  
Reg. No 4223158001 of St-Ann's college (Name of the  
College) underwent internship in Nexus RESEARCH INSTITUTE (Name of the  
Intern Organization) from May to June.

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

Authorized Signatory with Date and Seal





## Acknowledgements

I am very grateful and sharing my gratitude to  
Dr. Rev. Sister Sandhya, Principal, St. Ann's college for women,  
Guntur.

I wish to express my heartfelt, deep sense of  
gratitude and sincere regards to my mentor. Dr. K. Varma,  
Department of Biotechnology, St. Ann's college for women -  
Guntur.

I am thankful to management to Nexus Research  
Institute - Guntur for their invaluable guidance throughout  
this research. The staff was supportive in every walk of  
my research by providing all the necessary facilities, suggestions  
and paving my way to the successful completion of this  
short term internship programme.

At this juncture, I am immensely pleased to place  
on record my profound gratitude to our college staff  
members for their inspiring guidance for the successful  
completion of our research work.



## Contents

1. Executive Summary.
2. Overview of the organization
3. Internship Part
4. Outcomes Description.



## CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page 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.

L-asparaginase (asparaginase), is a bacterial enzyme that catalyzes the hydrolysis of asparagine to aspartic acid and thus depletes asparagine from the serum. All cells are unable to produce sufficient asparagine for growth and are dependent on plasma levels of this amino acid for protein synthesis. Plasma asparagine depletion results in inhibition of protein synthesis, which then leads to inhibition of RNA and DNA synthesis, causing subsequent apoptotic cell death of the leukemic cells. Although serum asparagine depletion is the goal of the treatment, asparagine depletion may not be dependent only on the amount of asparagine depletion deaminated by the drug, but also by the addition of this amino acid from the diet, synthesis by the liver, as well as induction of asparagine synthetase in the leukemia cells. Thus, serum asparagine levels can vary in the blood individual patients, possibly resulting in different responses to asparaginase. Asparaginase has no cross-resistance no known late effects, and has also antileukemia activity. Even though the drug itself does not penetrate the brain, in view of its significance the present study was taken.



In the short term Internship Period, the working Principle and mode of operating of several instruments such as laminar air flow chamber, Hot air oven, Autoclave, Incubator, Bio cabinet, Refrigerator, Microscope were learned. Mostly all of them were used for the Micro organisms culturing, incubation, Sterilization, maintenance and Preservation of microbial cultures and morphological characterization Processes.

The isolated soil bacteria were further Purified and tested for standard antibiotic disc diffusion assays as well as Protease enzyme screening were Performed.



## 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.

The organization committed to provide top-notch trainings that not only equip students with the skills needed for success but also trained them for Placement assistance in different sectors like Pharmaceutical industries, food industries, Paper & Pulp industries, aqua culture industries and dairy & beverage industries, where there is a huge requirement of trained / skilled people. I started my internship in May - June 2024 so from the beginning, I have done hands on experiments in bacterial isolation techniques, Enzyme Screening techniques, characterization methods and standard antibiotic Kirby - Bauer disc diffusion techniques.



## OBJECTIVES:-

- Gain hands on experience in biotechnology laboratory techniques.
- understanding the applications of biotechnology in various industries.
- Develop skills in Microbiology topics and biotechnology applications.
- Learn about Laboratory safety and Protocols.

## INTERNSHIP EXPERIENCE:-

- During my Internship, I had the opportunity to work closely with the microbiology lab team, assisting in various projects and gaining hands on experience with microbiological techniques, biotechnology methods and laboratory equipment.

### Mission and Vision:-

- To Improve human have through biotechnology and microbiology Innovation.
- To fasten a culture of Scientific excellence & collaboration
- To Prioritize ethical conduct and Social responsibility.

## CONCLUSION:-

This Internship provided valuable hands on experience in biotechnology research and development, and contributed to my professional growth and skills development. I am grateful for the opportunity to work with a talented team and contribute to innovative projects.



### 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.

Nexus Research Institute has provided necessary working conditions to fulfil the research objectives of the short term internship programme. During the study I learned about the working principle and handling procedure of various types of equipments such as Laminar air flow, hot air oven, autoclave, incubator, bio-cabinet, pH meter, refrigerator and microscope.

The weekly working schedule upto 6-8 weeks was formed, mostly the schedule was fulfilled. The working schedule includes weekly activities and daily tasks were performed. By the end of internship, acquired the skills of collection of samples and sampling, preparation of culture media, serial dilution, plant technique, pour plate technique and spread plate methods.



# ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
06/05/24			
Day - 1	<u>Laminar air flow chamber</u> :- It provide sterile air through high efficient particulate air filters.	used for the inoculation, culturing techniques	pr
06/05/24			
Day - 2	<u>Hot air oven</u> :- used for dry heat sterilization temp. upto 50-300°C	used to sterilization of glassware	pr
07/05/24			
Day - 3	<u>Autoclave</u> :- A machine that uses steam under pressure inside a pressure vessel.	To kill the harmful microorganism like bacteria, fungi and sterilize the media.	pr
08/05/24			
Day - 4	<u>Incubator</u> :- To grow and maintain microbial culture	It will provide suitable growing conditions.	pr
08/05/24			
Day - 5	<u>Bio-cabinet</u> :- It helps to maintain the quality control of the material being with as filters with the inflow and exhaust air.	It is used to filter out all the pathological biological samples.	pr
11/05/24			
Day - 6	<u>Centrifuge</u> :- It is used to separate the samples from the mixture	Separate the biological samples.	pr
13/05/24			



## WEEKLY REPORT

WEEK - 1 (From Dt. 06/05/24 to Dt. 13/05/24)

Objective of the Activity Done:

### Detailed Report:

In the first week of Internship we have started the experiment.

The Laminar air flow chamber provides sterile air through high efficient particulate air filters.

Hot air oven used for dry heat sterilization temperature upto  $50-300^{\circ}\text{C}$

Autoclave that uses steam under pressure inside a pressure vessel to kill the harmful microorganisms.

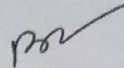
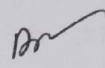

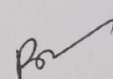
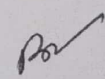

Incubator is used to grow and maintain microbial culture and it will provide suitable growing conditions.

Bio-cabinet is used to filter out all the pathological biological samples.

Centrifuge is used to separate the samples from the mixture and separate the biological samples.



# ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 14/05/24	<u>PH meter</u> :- It is used to measure the acidity or alkalinity of a solution.	Working Principle is Potentiometers.	
Day - 2 15/05/24	<u>Refrigerator</u> :- It is used to preserving and storing reagents, culture media, biological samples.	It preserve the biological samples etc...	
Day - 3 16/05/24	<u>Microscope</u> :- It is used to view the objects which are so tiny that they are invisible to naked eye.	observe the small objects under microscope.	
Day - 4 17/05/24	<u>Literature Study</u> :- Downloaded and thoroughly studied the different articles about the Present Study.	Materials and methods were studied	
Day - 5 18/05/24	collected the soil samples from cotton field of guntur dist., Andhra Pradesh.	For isolation of bacteria the samples are collected	
Day - 6 20/05/24	collected samples were processed and preserved under low temperature	collected samples were processed and preserved for further studies	



## WEEKLY REPORT

WEEK - 2 (From Dt. 14.05.24 to Dt. 20.05.24)

Objective of the Activity Done:

### Detailed Report:

In the second week of Internship we were continued the experiment.

pH Meter is used to Preserving reagents, and storing culture media & biological samples.

Microscope is used to view the tiny particles that they are invisible to naked eye.

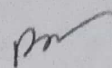




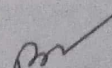
We collected the Soil Samples from cotton field of Guntur district, Andhra Pradesh.

The Samples were collected for the isolation of bacteria.

These Samples are processed and preserved for under low temperature for further studies.



### ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 21/05/24	The Soil Samples were Pretreated by heating and drying.	Heating & drying methods removed the uncounted and contaminated microorganism	
Day - 2 22/05/24	Culture medium such as Nutrient agar medium (NAM) was Prepared.	Culture medium was used to isolation of bacterial from Soil Samples.	
Day - 3 23/05/24	Serial dilution technique and Pour Plate technique were carried out in the isolation process.	Serial dilutions ( $10^{-1}$ , $10^{-2}$ , $10^{-3}$ , $10^{-4}$ , $10^{-5}$ , $10^{-6}$ ) were Prepared and inoculated on culture plates	
Day - 4 24/05/24	The inoculated Plates were incubated for 2-4 days.	The plates were incubated at room temp. $30 \pm 2^{\circ}\text{C}$	
Day - 5 25/05/24	Soya-bean casein digest agar (SCDA) medium was Prepared.	The culture medium was used for isolation of bacteria from samples.	
Day - 6 27/05/24	Serial dilution method, Pour Plate technique and spread Plate method were carried out in the isolation process.	These were used for isolation and enumeration of microorganisms (bacteria).	



## WEEKLY REPORT

WEEK - 3 (From Dt. 21.05/24 to Dt. 27.05/24)

Objective of the Activity Done:

### Detailed Report:

In the third week of Internship we have continued the experiment.

The Soil Samples were Pretreated by heating and drying for removing the uncounted & contaminated microorganisms.

Culture medium such as Nutrient agar medium (NAM) was Prepared for the isolation of bacteria from Soil.

In the isolation process serial dilution technique and pour plate technique were carried out.

Serial dilutions ( $10^{-1}$  to  $10^{-6}$ ) were Prepared and inoculated on culture Plates.

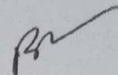


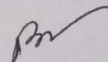


The inoculated Plates were incubated at room temp.  $30 \pm 2^{\circ}\text{C}$  for 2-4 days.

Soya-bean casein digest agar (SCDA) medium was Prepared. This medium is used for isolation of bacteria.

Serial dilution method, pour plate technique and spread plate method were carried out in isolation process.



# ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 28/05/24	The inoculated plates were incubated at room temp. for 24-48 hrs.	The plates were incubated at room temp. 30±2°C	
Day - 2 29/05/24	All the media plates were periodically observed for observation of bacterial isolated.	Bacterial colonies count and results were noted	
Day - 3 30/05/24	Isolated bacterial colonies were counted from 10 <sup>-1</sup> , 10 <sup>-2</sup> , 10 <sup>-3</sup> , 10 <sup>-4</sup> , 10 <sup>-5</sup> , 10 <sup>-6</sup> dilution plates.	Bacterial colonies count and results were noted	
Day - 4 31/05/24	Culture media were prepared in Petri-dishes and stants were prepared	Stants preparation for sub-culturing purpose.	
Day - 5 01/06/24	Isolated bacterial colonies were sub-cultured on NAM, SCD media plates by using cross streak method	The method was apply for maintaining the pure cultures of isolated bacterial species.	
Day - 6 03/06/24	Bacterial isolates (BBC-1 to BBC-6) were sub-cultured on NAM, SCD media stants by using streaking methods.	These methods were applied for maintaining the pure culture of isolated bacterial species.	



## WEEKLY REPORT

WEEK - 4 (From Dt. 28/05/24 to Dt. 03/06/24)

Objective of the Activity Done:

### Detailed Report:

In the fourth week of Internship we have continued the experiment:

The inoculated plates were incubated at room temp. for 24-48 hrs at room temp  $30 \pm 2^\circ\text{C}$ .

All the media plates were periodically observed for the observation of bacterial isolates.

Isolated bacterial colonies were counted from ( $10^{-1}$  to  $10^{-6}$ ) dilution plates.

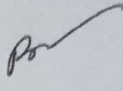





Bacterial colonies count and results were noted. Culture media were prepared in Petri-dishes and slants were prepared for sub-culturing purpose.

Isolated bacterial colonies were subcultured on NAM, SODA media plates by using cross streak method for maintaining the pure cultures of isolated bacterial species.

Bacterial isolates (BBC-1 to BBC-6) were sub-cultured on NAM, SODA media slants by using streaking methods.



# ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 04/06/24	collected the disease infected plant samples of citrus, guava and neem leaves.	For isolation of disease causing pathogens bacterial fungi they were collected	
Day - 2 05/06/24	collected samples were processed and surface sterilization with a 5% ethyl alcohol, antifungal agent, Streptomycin & distilled water.	Surface sterilization leads to purification and removal of dust particles.	
Day - 3 06/06/24	Nutrient agar medium (NAM) was prepared	The prepared media were used to isolate the bacterial cultures.	
Day - 4 07/06/24	culture medium such as soya-bean casein digest agar (SCDA) was prepared and pour plate method was employed	culture medium was used to isolation of bacterial fungi from soil samples.	
Day - 5 08/06/24	Standard antibiotic Kirby-Bauer Disc diffusion assay was performed to BBC-1, BBC-2, BBC-3 bacterial strains	To know the response of isolated bacteria against the std antibiotic disc either resistance (R) sensitivity (S)	
Day - 6 10/06/24	Media plates and stants were subjected for discarding.	Media plates and stants were discarded to maintain the sterile conditions of glassware	



## WEEKLY REPORT

WEEK - 5 (From Dt. 04/06/24 to Dt. 10/06/24.)

Objective of the Activity Done:

### Detailed Report:

In the fifth week of Internship we have continued the experiment.

collected the disease infected plant samples of guava, citrus and neem leaves.

The collected samples were processed and surface sterilization with 95% ethyl alcohol, antifungal agent, Streptomycin & distilled water.

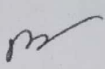

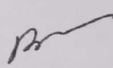

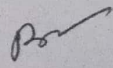
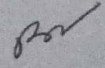
Surface sterilization leads to purification and removal of dust particles.

NAM was prepared for isolating the bacterial cultures. culture method such as soyabean casein digest agar (SCDA) was prepared and pour plate method was employed. Std. antibiotic Kirby-Bauer Disc diffusion assay was performed to 1, 2, 3 bacterial strains.

To know the response of isolated bacteria against the std. antibiotic discs either resistance & sensitivity. media plates and stains were discarded to maintain the sterilize conditions of glass ware.



# ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1 11/06/24	All the glass ware was sterilized in the hot air oven.	Sterilization of the glass ware leads to maintain the sterile conditions.	
Day -2 12/06/24	L-Asparaginase Screening:- Asparaginase agar medium containing congo-red indicator (0.002%) was prepared and used for this enzyme screening. L-Asparaginase was supplemented separately after medium.	Asparaginase is an enzyme that hydrolyzes L-asparagine to L-aspartic acid. Asparaginase is an enzyme that is used as a medication and in food manufacturing. As a medication, L-asparaginase used treat leukemia.	
Day -3 13/06/24	The bacterial strains such as BBC-1, BBC-2 and BBC-3 were inoculated and incubated.	Incubation was carried at room temp. at $30 \pm 2^\circ\text{C}$ for 24-48 hrs.	
Day -4 14/06/24	Again, Asparaginase agar medium containing congo-red indicator (0.002%) was prepared & poured into the sterile Petri plates.	Asparaginase enzyme that hydrolyzes L-asparagine to L-aspartic acid. L-asparaginase activity results in increase medium pH that can be detected by the portion of pink zones around the colonies.	
Day -5 15/06/24	The bacterial strains such as BBC-4, BBC-5 and BBC-6 were inoculated and incubated.	Incubation was carried at room temp. at $30 \pm 2^\circ\text{C}$ for 24-48 hrs.	
Day -6 18/06/24	After incubation plates were observed for the enzyme ability as Positive or negative.	Results were noted, formation of a pink zones around the culture indicates the production of asparaginase. Absence of pink color appearance, it indicates the negative.	



## WEEKLY REPORT

WEEK - 6 (From Dt. 11/06/24.. to Dt. 18/06/24..)

Objective of the Activity Done:

Detailed Report:

In the Sixth week of Internship we have continued to do the experiment.

All the glassware is sterilized is done.

The bacterial strains are prepared again asparaginase agar medium was prepared.

The bacterial strains were inoculated and then incubated. Result was observed, the negative result is indicated.



## 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.)

The main objective of the Present study was clearly discussed by the Subject experts of the research institution. The internship organisation clearly explained about various types of job interest areas in different Pharmaceutical, food, alcoholic and beverage industries. To fulfil the short term internship objectives, the Nexus research institute is fully equipped with different types of instruments used for the studies. Their Subject experts clearly explained the different protocols, procedures of weekly activities.

Mostly do's and don'ts of laboratory rules and regulations. Discussed about Precautions to be followed while proceeding in the Research work.

The internal space and ventilation was sufficient to carry out the discussed work. The time management during the research is very important and crucial. While carrying the work, our team has been maintained the exact time limitations during different procedures and protocols.



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

Technically for microbial analysis, sample collection from soil is very specific, microbes are dwelling in soil. The samples were collected by removing uppermost layer of soil and at a depth of 5-20cm. Physical sterilization by hot air oven was carried. Serial dilution technique was used to enumeration of micro-flora. Pour Plating of microbial culture media and Spread Plate methods were carried out in the isolation of bacteria, fungi and actinobacteria. Wearing mask, using hand gloves, apron, frequent using ethyl alcohol (95%) and antiseptics would significantly enhances the sterile conditions in laminar air flow chamber as well as laboratory premises. Through our studies, soil bacteria successfully produced proteases.

Here are some real-time skills acquired in:

1. Isolation of bacteria from soil:-

→ Soil Sampling and Preparation.

→ Serial dilution and Plating technique.

→ Bacterial isolation and Purification.

→ colony morphology and characterization.



## 2. Antibiotic Resistance Practical:-

- Handling and maintenance of bacterial cultures
- Antibiotic susceptibility testing (Kirby-Bauer disc diffusion method).

## 3. Enzyme Screening:-

- Media Preparation and Sterilization.
- Different Streaking techniques.
- Enzyme confirmation reaction.



**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.

→ Theoretical knowledge of class room gives us the indepth understanding of facts from books and different sources.

→ The practical applicable of theoretical knowledge enhances the working skills and performance improvement in in-vitro laboratory conditions.

→ In our study, especially for the selection of a bacterial strain from bacterial communities, making us to taking a strong discussion in work by applying few special characters of strains such as their antibiotic production nature, morphological appearance of bacterial colonies etc...

→ Similarly, work oriented mindset and calculation of time taking for completing the day schedule were gained

→ Exploration of the research topic in different dimensions during the work, makes us to think about the scientific need to this world

→ It increases the confidence levels among us.



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.,)

- Literature was studied relevant to the internship topics.
- collection of different samples such as soil, water and other sources could be collected successfully.
- Pre-treatment is very essential and crucial for isolation of micro organisms.
- Collaboration and co-operation in research will flourish the healthy working environment in the laboratory.
- Gained ability to articulate the key points while focusing on the research during the internship.
- To improve my communication skills, I would:
  1. Practice Public Speaking:- Regularly engage in presentations, debates and extempore speeches to build confidence and clarity in oral communication.
  2. Write Regularly:- Maintain a journal, blog or write articles to enhance written communication skills and articulate thoughts effectively.
  3. Active listening:- Focus on understanding others, ask clarifying questions, and paraphrase to ensure comprehension.



4. Conversational Practice:- Engage in diverse conversations, ask open-ended questions and explore different topics to enhance conversational abilities.

5. Confidence building:- Prepare thoroughly, focus on strengthen and positive self-talk to boost confidence levels.

6. Empathy and understanding:- Seek diverse perspectives, ask questions, and acknowledge others' views to improve understanding and empathy.

7. Clear articulation:- Focus on concise and clear communication, avoiding ambiguity and ensuring key points are conveyed effectively.

8. Effective conclusion:- Practise summarizing conversations, reiterating key points, and closing discussions effectively.

9. Seek feedback:- Encourage constructive feedback, learn from criticism, and adapt to improve communication skills.

10. Observe effective communicators:-

Study and learn from confident and effective communicators, adapting their strategies and techniques.



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

1. Stay updated:- Stay current with the latest research, technologies and methodologies in biotechnology.

2. Practice Active listening:- Pay attention to others' ideas, ask clarifying questions and acknowledge the contributions.

3. Prepare Thoroughly:- Research topics, organize thoughts, and Prepare Presentations on contributions in advance.

4. Encourage collaboration:- Foster an inclusive environment, promote shared goals, and recognize team members' strengths.

5. Lead by example:- Demonstrate expertise, provide guidance, and motivate team members to achieve common objectives.

Specifically for biotechnology-related topics:-

1. Develop expertise:- Enhance knowledge in tissue culture, bacterial isolation, and antibiotic Kirby-Bauer disc diffusion techniques.

2. Stay updated on industry developments: Follow recent advancements, research and break thoughts in biotechnology.

3. collaborate with experts:- Work with experienced professionals, learn from their experiences and gain insights into best practices.



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

New and future developments in microbial Biotechnology and Bioengineering:

Trends of Microbial biotechnology for Sustainable Agriculture and Biomedicine Systems.

Diversity and functional Perspectives describes how specific techniques can be used to generalize the metabolism of bacteria that optimize biologic improvement strategies and bio-transport process. Microbial biotechnology focuses on microbes of agricultural, environmental, industrial, and clinical significance

Asparaginase enzyme that hydrolyzes L-asparagine to L-aspartic acid, which causes a depletion of reserves of L-asparagine, thus inhibiting protein and nucleic acid synthesis. It is effective for severe lymphocyte leukemia. Originally, it was intended to treat leukemia inherently devoid of asparagine due to inherent lack of asparagine synthetase.

This volume discusses several methods based on molecular genetics, systems, and biology of synthetic, genomic, proteomic, and metagenomics. Recent developments in our understanding of the role of microbes in sustainable agriculture and



biotechnology have created a highly potential research area

The soil and plant microbiomes have a significant role in plant growth promotion, crop yield, soil health and fertility for sustainable developments. The microbes provide nutrients and stimulate plant growth through different mechanisms, including solubilization of phosphorus, potassium and zinc; biological nitrogen fixation; production of siderophore, ammonia, HCN and other secondary metabolites which are antagonistic against pathogenic microbes.

This new book provides an indispensable reference source for engineers/bioengineers, biochemists, biotechnologists, microbiologists, agrochemists and researchers who want to know about the unique properties of this microbe and explore its sustainable agriculture future applications.



## Student Self Evaluation of the Short-Term Internship

Student Name: A. Lakshmi Sowjanya

Registration No: V223158001

Term of Internship: From: May

To: June

Date of Evaluation: 28/06/2024

Organization Name & Address: NEXUS RESEARCH INSTITUTE, GUNTUR.

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: 28/06/2024

A. Lakshmi Sowjanya.  
Signature of the Student



### Evaluation by the Supervisor of the Intern Organization

Student Name: A. Lakshmi Sowjanya

Registration No: Y223158001

Term of Internship: From: May

To: June

Date of Evaluation: 28/06/2024

Organization Name & Address: NEXUS RESEARCH INSTITUTE

Name & Address of the Supervisor  
with Mobile Number

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

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

Rating Scale: 1 is lowest and 5 is highest rank

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

Date: 28/06/2024

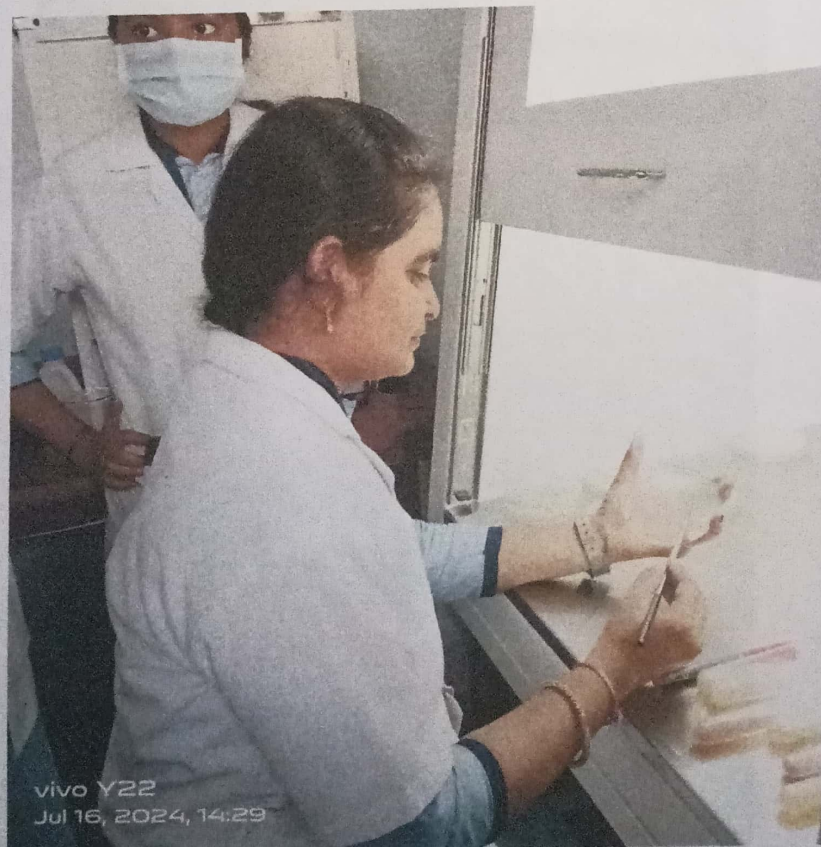
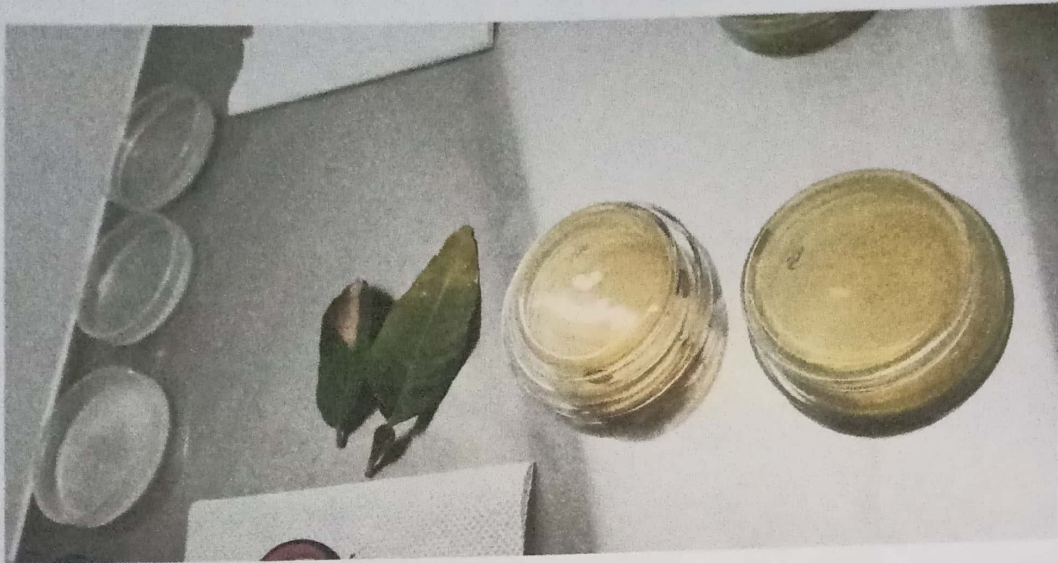
Signature of the Supervisor

Page No:



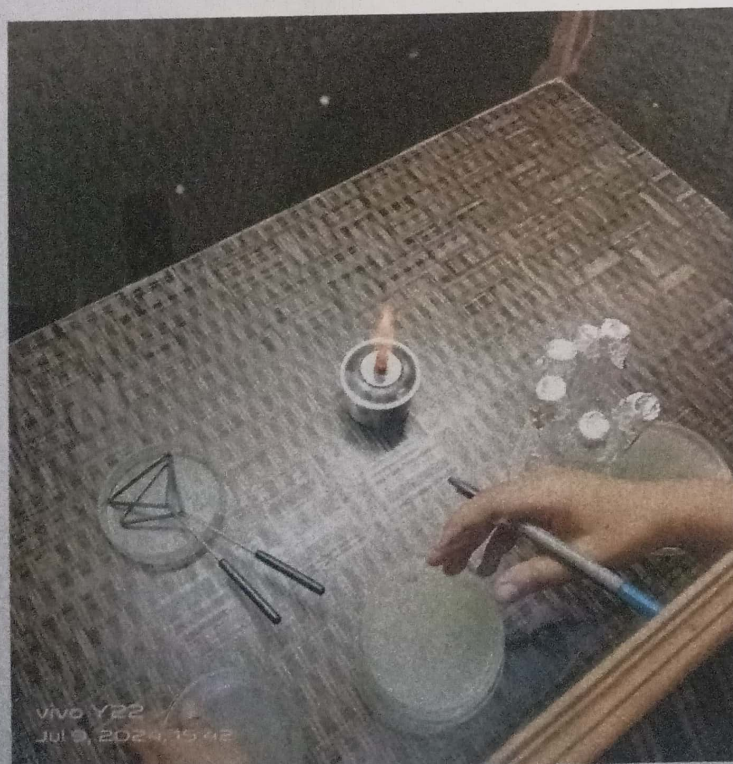
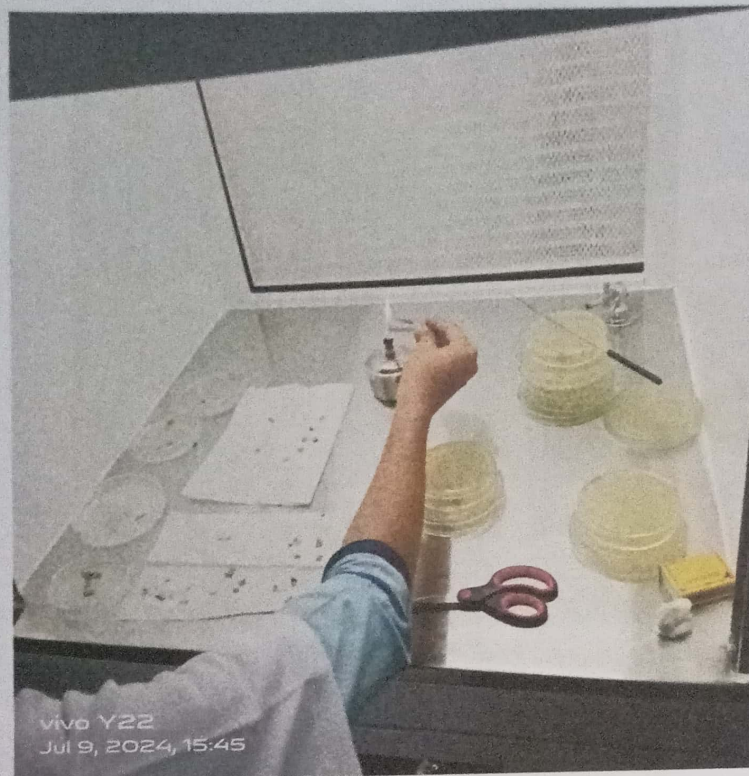


## PHOTOS & VIDEO LINKS



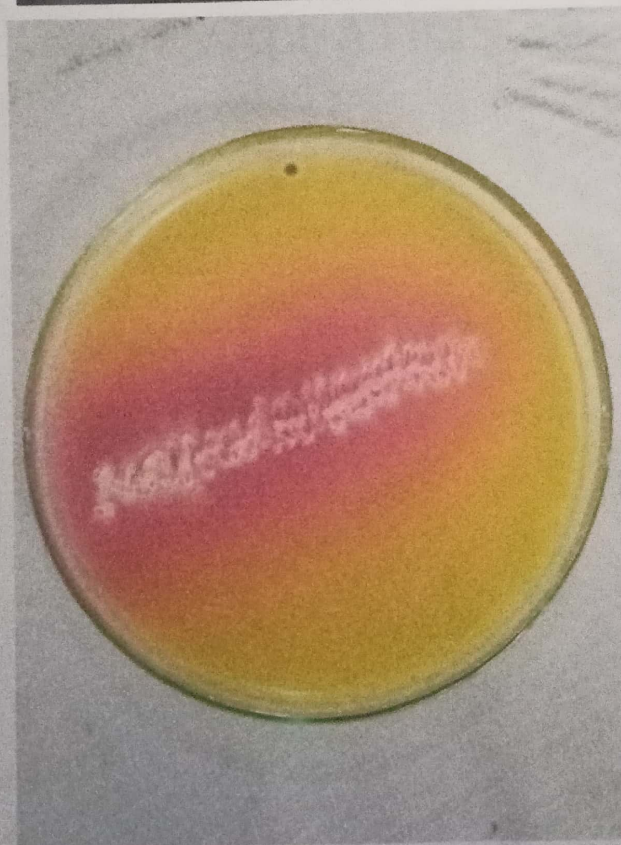
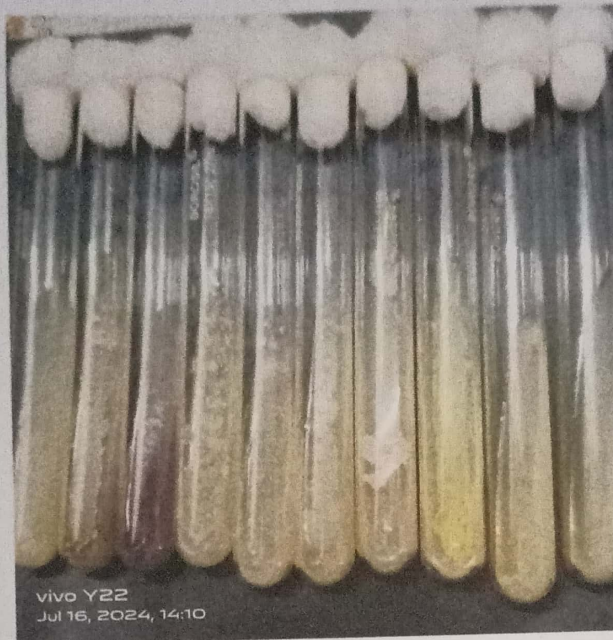
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# EVALUATION

Page No:





## Internal Evaluation for Short Term Internship (On-site/Virtual)

### Objectives:

- To integrate theory and practice.
- To learn to appreciate work and its function towards the future.
- To develop work habits and attitudes necessary for job success.
- To develop communication, interpersonal and other critical skills in the future job.
- To acquire additional skills required for the world of work.

### Assessment Model:

- There shall only be internal 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 100 marks.
- The number of credits assigned is 4. Later the marks shall be converted into grades and grade points to include finally in the SGPA and CGPA.
- The weightings shall be:
  - Activity Log 25 marks
  - Internship Evaluation 50marks
  - Oral Presentation 25 marks
- 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. Lakshmi Sawanya

Programme of Study: BSc

Year of Study: III Year

Group: Biotechnology, Botany, Chemistry

Register No/H.T. No: Y223158001

Name of the College: ST. ANN'S COLLEGE FOR WOMEN

University: Acharya Nagarjuna University.

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	25
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	100

Date: 28/06/2024

Signature of the Faculty Guide

Certified by



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Signature of the Head of the Department/Principal

PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034





## **ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A Statutory Body of the Government of Andhra Pradesh)**

2nd, 3rd, 4th and 5th floors, Neeladri Towers, Sri Ram Nagar, 6th Battalion Road

Atmakur (V) Mangalagiri (M), Guntur, Andhra Pradesh, Pin - 522 503

[www.apsche.ap.gov.in](http://www.apsche.ap.gov.in)



PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP

Submitted in accordance with requirement for degree of  
BACHELOR OF SCIENCES



Submitted by

Avula.Praharsha Sai Trisha

Registration no : OAM202200224417

Hall ticket no:Y223158003

Period of internship : From : May To : June

Name of organization: Nexus Research Institute

Under the guidance of

Mrs . Joyce

Department of chemistry

ST.ANN'S DEGREE COLLEGE FOR WOMEN

(Affiliated to ACHARYA NAGARJUNA UNIVERSITY ) Gorantla ,Guntur-34

ANDHRA PRADESH

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



# An Internship Report on

L-Asparaginase

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSC

Under the Faculty Guideship of

Mrs. L. B. Joyce mam

(Name of the Faculty Guide)

Department of Biotechnology

St. Ann's College for women

(Name of the College)

Submitted by:

A. Prabhavsha Sai Trisha

(Name of the Student)

Reg.No: Y223158003

Department of Biotechnology

St. Ann's College for women

(Name of the College)



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. Dr. Prabhala Sai Trisha..... Reg. No. Y223158003  
of St. Ann's College for Women..... underwent Internship in Scanning & L-Amping of Pseudomonas  
from May 2024 to June 2024..... The overall performance of the Intern during him / her Internship is found

to be Satisfactory.....

Date : 10/07/2024



Dr. Ch. Chiranjeev  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur - 522 034



PROGRAM BOOK FOR

# SHORT-TERM INTERNSHIP

(Onsite / Virtual)

Name of the Student: A. Praharsha Sai Trisha

Name of the College: St. Ann's College for Women

Registration Number: V223158003

Period of Internship: From May To June

Name & Address of the Intern Organization: NEXUS RESEARCH

INSTITUTE, GUNTUR.

Acarya Nagarjuna University

YEAR 2024



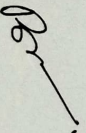
## Official Certification

This is to certify that A. Prabhavsha Sai Trisha (Name of the student) Reg. No. 223158003 has completed his/her Internship in newus research institute (Name of the Intern Organization) on L. Asparaginaase (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC in the Department of Chemistry (Name of the College) St. Ann's College -for women

This is accepted for evaluation.

### Endorsements

Faculty Guide



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.



Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034





## INTERNAL ASSESSMENT STATEMENT

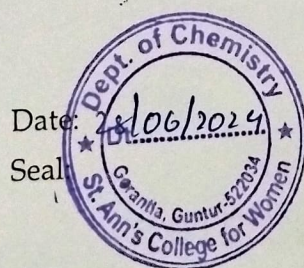
Name Of the Student: A. Prabarsha Sai Trisha  
Programme of Study: BSC  
Year of Study: II year  
Group: Biotechnology, Botany, Chemistry  
Register No/H.T. No: Y22 3158003  
Name of the College: St. Ann's College for women  
University: Acharya Nagarjuna university.

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	25
	GRAND TOTAL	100	98

Date: 28/06/2024

Signature of the Faculty Guide

Certified by



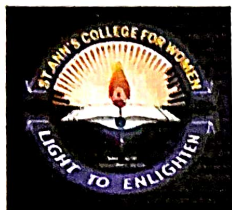
Head of Dept. of Chemistry  
St. Ann's College for Women  
GUNTUR-522034.

PRINCIPAL  
St. Ann's College for Women  
GUNTUR-522034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with requirement for degree of  
BACHELOR OF SCIENCES**



**Submitted by**

**B.Yamuna**

**Registration no : OAM202200087925**

**Hall ticket no:Y223158004**

**Period of internship : From : May To : June**

**Name of organization: Nexus Research Institute**

**Under the guidance of**

**Mrs . Joyce**

**Department of chemistry**

**ST.ANN'S DEGREE COLLEGE FOR WOMEN**

**(Affiliated to ACHARYA NAGARJUNA UNIVERSITY ) Gorantla ,Guntur-34**

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# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. B. Yamuna..... Reg. No. Y2231582024.....  
of St. Ann's College for Women..... underwent Internship in Screening of L-Asparagine Producing Bacteria  
from May 2024.. to June 2024... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



*Dr. Chiranjeev*

Director  
DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur- 522 034

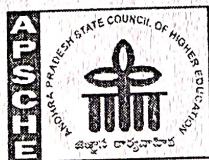


# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**  
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student:

E. Yamuna

Name of the College:

St. Ann's college for Women

Registration Number:

1/223158001

Period of Internship:

From:

May

To:

June

Name & Address of the Intern Organization:

Nexus Research  
Institute, GUNTUR

Acharya Nagarjuna **University**

1998

2024

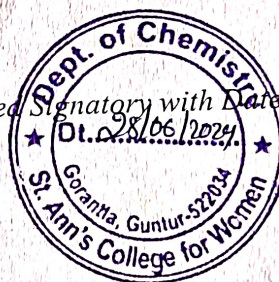


## Certificate from Intern Organization

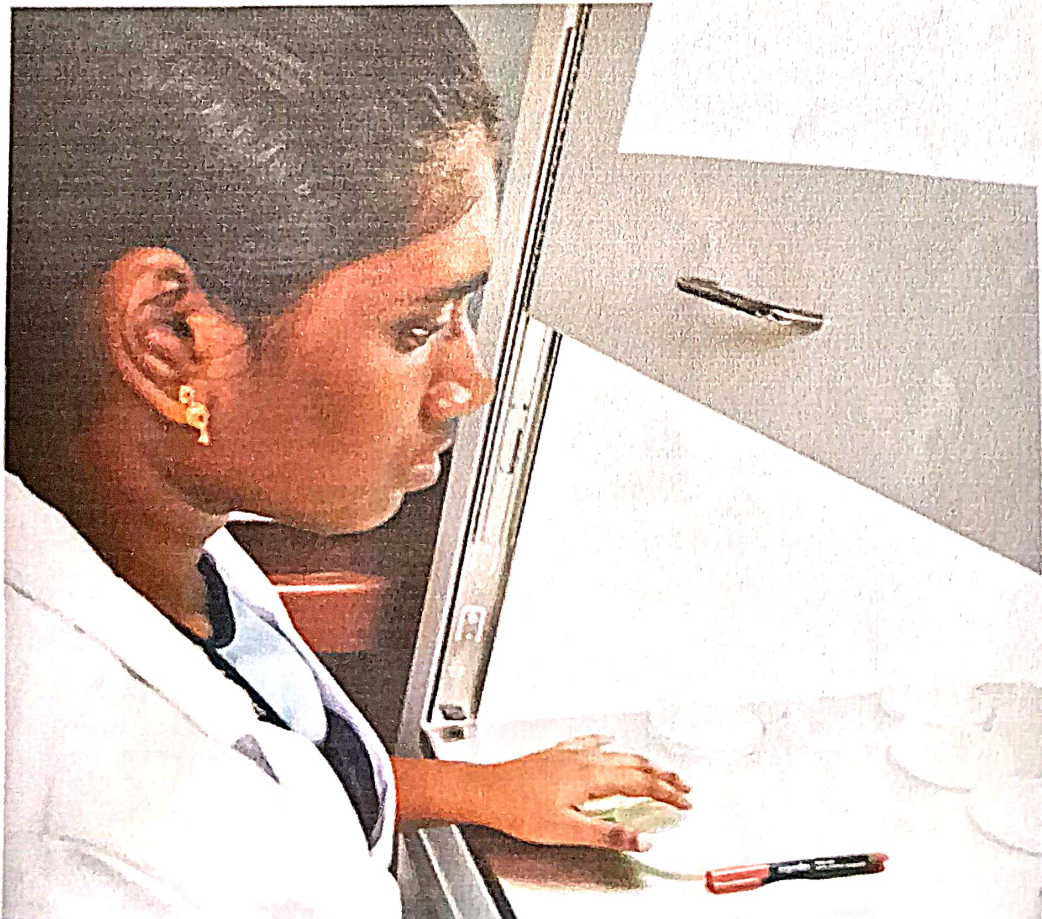
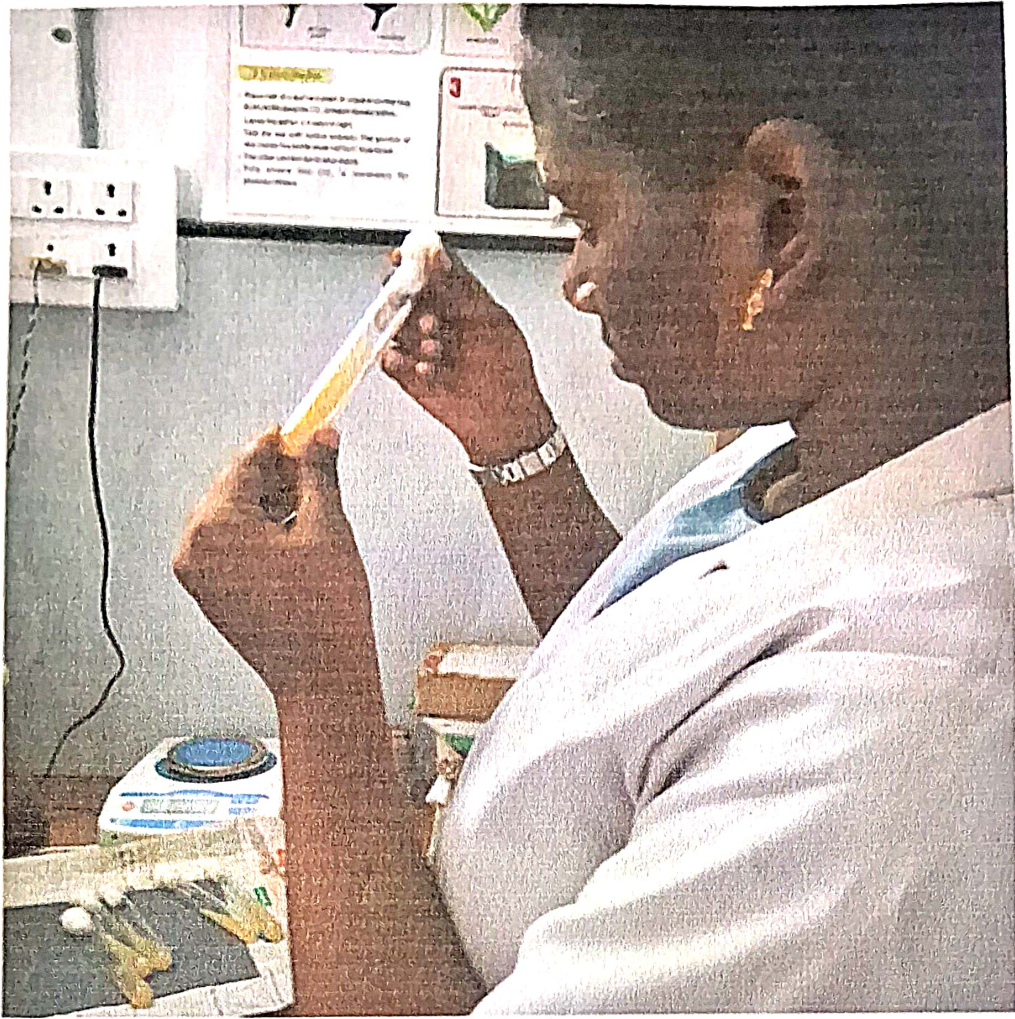
This is to certify that B. Yamuna (Name of the intern)  
Reg. No. 4223158004 of St. Ann's College (Name of the  
College) underwent internship in Alexis Research Institute (Name of the  
Intern Organization) from may to June

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

Authorized Signatory with Date and Seal













## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. Yamuna

Programme of Study: Bsc

Year of Study: II year

Group: Biotechnology, Botany, Chemistry

Register No/H.T. No: 4223158004

Name of the College: ST. ANN'S COLLEGE FOR WOMEN

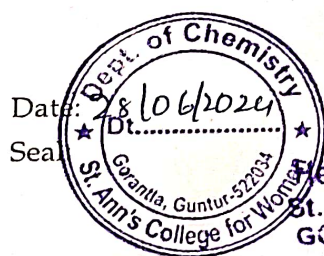
University: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	99

Date: 28/06/2024

Signature of the Faculty Guide

Certified by



Signature of the Head of the Department

Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Signature of the Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. .... B. Indira Priyadarshini ..... Reg. No. Y923158005 .....  
of St. Ann's college for women ..... underwent Internship in Screening of *L. Aspergillus* Producing bacteria .....  
from May 2024 .. to June 2024 ..... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory .....

Date : 10/07/2024



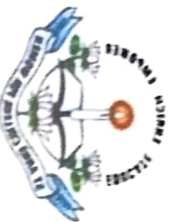
Dr. ch. chris  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur-522-034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**B. Indirapriyadarshini**



**OAMDC no:OAM202200193463**

**Hall Ticket No: Y2223158005**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY**

**ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



PROGRAM BOOK FOR

# SHORT-TERM INTERNSHIP

(Onsite / Virtual)

Name of the Student: B. Indira Priya Dhanishai

Name of the College: St Ann's College for women

Registration Number: 1223158005

Period of Internship: From: May To: June

Name & Address of the Intern Organization: Nexus Research Institute

Acharya Nagarjuna University  
YEAR 2024



# An Internship Report on

$\alpha$ -Asparaginase (asparaginase).

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

B.Sc.

Under the Faculty Guideship of

Mrs. B. JOYCE.

(Name of the Faculty Guide)

Department of <sup>Chemistry.</sup> Biotechnology.

St. Ann's College for women.

(Name of the College)

Submitted by:

B. Indira Priya Darshini.

(Name of the Student)

Reg.No: V223158005

Department of Biotechnology.  
St. Ann's College for women.

(Name of the College)



## Official Certification

This is to certify that B. Indira Priya Daswini (Name of the student) Reg. No. V223153005 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on 2-Aspenaginase (Asparaginase) (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc. in the Department of St. Ann's college for women (Name of the College). St. Ann's college for women.

This is accepted for evaluation.

### Endorsements

Faculty Guide



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034





## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. Indira Priya Chharashari  
Programme of Study: B.Sc  
Year of Study: 1<sup>st</sup> year  
Group: Biotechnology, Botany, Chemistry  
Register No/II.T. No: Y223158005  
Name of the College: St Ann's College for Women  
University: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	23
2.	Internship Evaluation	50	48
3.	Oral Presentation	25	23
	GRAND TOTAL	100	94

Date: 28/6/24

Signature of the Faculty Guide

Certified by



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Principal  
Department of Chemistry  
GORANTLA, GUNTUR-522034



# NEXUS RESEARCH INSTITUTE

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4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. B. Yasaswini Reg. No. Y223158006  
of St. Ann's college for women underwent Internship in Screening of L-Asparaginase producing bacteria  
from May 2024 to June 2024. The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.

Date : 10/07/2024



Dr. Ch. Chinnanjay  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravati Road  
Guntur-522 034



**PROGRAM BOOK FOR  
SHORT TERM  
INTERNSHIP**

Submitted in accordance with the requirement for the Degree of

**BACHELOR OF SCIENCE**



Submitted by

**BATHULA YASASWINI**

Reg No: OAM20220012340761

Hall Ticket No: Y223158006

PERIOD OF INTERNSHIP : From : MAY To: JUNE

NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE

Under the Guidance of

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST.ANN'S COLLEGE FOR WOMEN**

(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY, GORANTLA, GUNTUR -34

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER  
EDUCATION**

(A STATUTORY BODY OF GOVT. OF ANDHRA  
PRADESH)



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student: B. Vasas wini

Name of the College: St. Ann's College for women

Registration Number: 4223158006

Period of Internship: From may To June

Name & Address of the Intern Organization: NEXUS RESEARCH  
INSTITUTE, GUNTUR.

Atharva Nagatiruna University  
YEAR 2024



# An Internship Report on

Dr. Akshayjina & Siddhantjina

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

B.Sc.

Under the Faculty Guideship of

Mrs. B. Joyce A.J. Kumari

(Name of the Faculty Guide)

Department of Chemistry

St. John's College for women

(Name of the College)

Submitted by:

Rathula . Yashwini

(Name of the Student)

Reg.No: 4223156006

Department of Biotechnology,

St. John's College for women.

(Name of the College)



## Official Certification

This is to certify that B. Yasarwini (Name of the student) Reg. No. Y233158006 has completed his/her Internship in Nexus research institute (Name of the Intern Organization) on L. Asparaginase (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC in the Department of Biotechnology (Name of the College). St. Ann's college for women.

This is accepted for evaluation.

### Endorsements

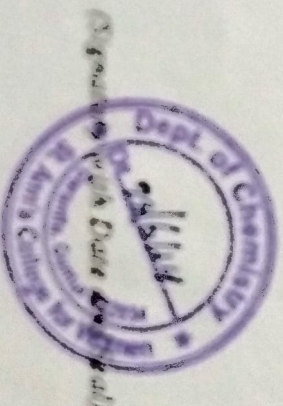
Faculty Guide

*[Signature]*

Head of Dept. of Chemistry  
St. Ann's college for Women  
CORANTLA CUNTUR-522034

*[Signature]*

Principal  
St. Ann's college for Women  
CORANTLA CUNTUR-522034





# INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. yasaswini  
 Programme of Study: BSc  
 Year of Study: II year  
 Group: Biotechnology, Botany, chemistry  
 Register No/H.T. No: Y123158006  
 Name of the College: St. Ann's College for women  
 University: Acharya Nagarjuna University

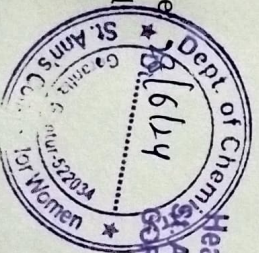
Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	25
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	100

Date: 28/6/24

Signature of the Faculty Guide

Certified by

Date: 28/6/24  
 Head of Dept. of Chemistry  
 St. Ann's College for the Head of the Department/Principal  
 GORANTLA, GUNTUR-522034.  
 GORANTLA, GUNTUR-522 034





# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. B. Rampa..... Reg. No. Y223158007.....

of St. Ann's college for Women..... underwent Internship in Screening of L-Asparaginase Producing bacteria.....

from May 2024... to June 2024..... The overall performance of the Intern during him / her Internship is found to be Satisfactory.....

Date : 10/07/2024



Dr. Ch. Chiranjeevi  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravati Road  
Guntur-522 034





**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**BONTIA RAMYA**

**Reg No: OAMDC202200207008 Hall Ticket No: Y223158007**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY**

**STANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**





PROGRAM BOOK FOR

# SHORT-TERM INTERNSHIP

(Onsite / Virtual)

Name of the Student: E. RAMPYA

Name of the college: St. Ann's College for Women

Registration Number: Y213156109

Period of Internship: From May to June

Name & Address of the Intern Organization: NEXUS RESEARCH  
INSTITUTE, GUNTUR

Acharya Nagarajaram University

YEAR: 2019





## An Internship Report on

J. Aspaaginas

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

B.Sc

Under the Faculty Guideship of

Mrs. B. Joyce N. Tumua

(Name of the Faculty Guide)

Department of chemistry

St. Ann's college for women.

(Name of the College)

Submitted by:

Bentha. Ranya

(Name of the Student)

Reg.No. Y223158007

Department of Botchnology

St. Ann's college for women

(Name of the College)



## Official Certification

This is to certify that B. Ramya \_\_\_\_\_ (Name of the student) Reg. N. Y223158007 completed his/her Internship in Neos Research Institute of the Intern Organization on 1. August 2024 (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc in the Department of Biotechnology (Name of the College) St. Mary's college for women

This is accepted for evaluation.

### Endorsements

Faculty Guide



Head of Dept. of Chemistry

St. Mary's college for Women  
Coimbatore-635 024



St. Mary's college for Women  
Coimbatore-635 024



(Signature with Date and Seal)



# INTERNAL ASSESSMENT STATEMENT

Name Of the Student: B. Ramya  
 Programme of Study: BSc  
 Year of Study: II year  
 Group: BioTechnology, EOTang, Chemistry  
 Register No/H.T. No: Y2231580073  
 Name of the College: St. Ann's College for Women  
 University: McLodga Nagapurna university

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	25
	GRAND TOTAL	100	98

Date 28/06/2024

Signature of the Faculty Guide

Certified by

pr

swath  
Principal

Head of Dept. of Chemistry  
 Signatures of the Head of the Department/Principal  
 Date 28/06/2024  
 Seal of St. Ann's College for Women  
 GDRANTLA, GUNTUR-522034



# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by





# NEXUS RESEARCH INSTITUTE

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4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. .... B. Thamsu Padappa ..... Reg. No. Y223158008...  
of St. Ann's college for women ..... underwent Internship in Screening of L-Asparaginase producing bacteria  
from May 2014 to June 2014.... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2014



Dr. Ch. Chiranjeevi

Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur - 522 034



**PROGRAM BOOK FOR  
SHORT TERM  
INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**BUSI THANU PADEESHA**

**Reg No: OAM202200204173**

**Hall Ticket No: Y223158008**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER  
EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA  
PRADESH)**



## An Internship Report on

L- Asparaginase (asparaginase)

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

B.Sc.

Under the Faculty Guideship of

Mrs. B. Joyce N.J. Kumasi

(Name of the Faculty Guide)

Department of Chemistry

St. Ann's College for women.

(Name of the College)

Submitted by:

Busi. Thamu Padesthe.

(Name of the Student)

Reg.No: 4223158008

Department of Biotechnology

St. Ann's College for women.

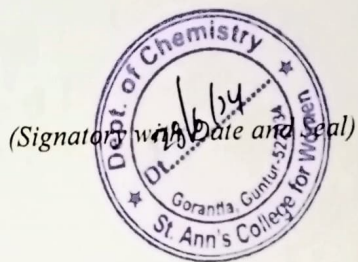
(Name of the College)



## Official Certification

This is to certify that Busi. Thanni Paddeesha (Name of the student) Reg. No. 4223158008 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on L- asparaginase [asparaginase] (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc. in the Department of St. Ann's College for women (Name of the College). St. Ann's college for women

This is accepted for evaluation.



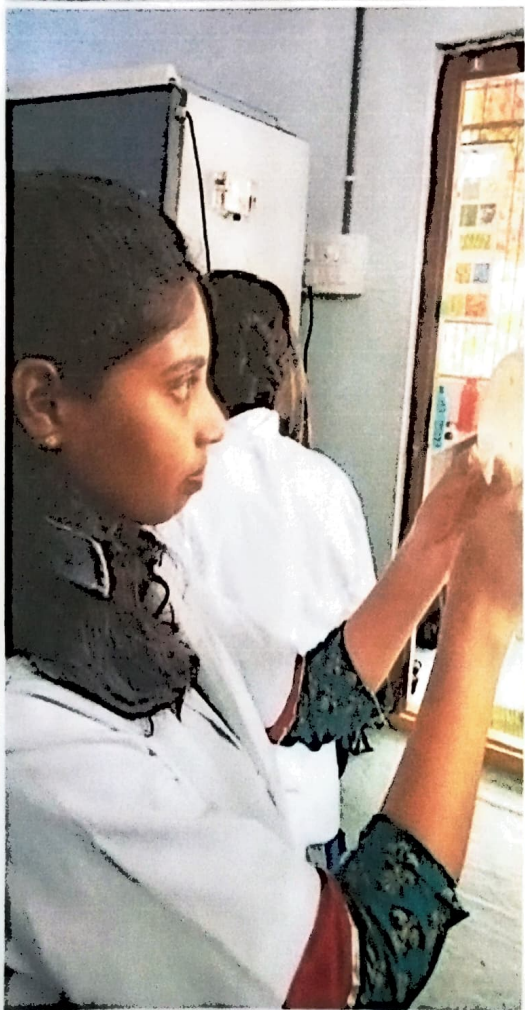
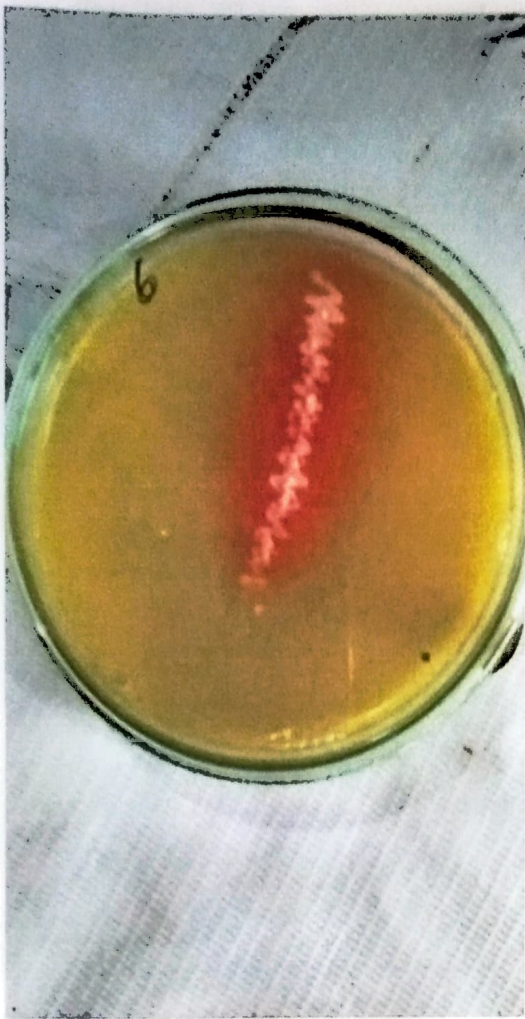
### Endorsements

Faculty Guide

Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

PRINCIPAL  
Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034







# INTERNAL ASSESSMENT STATEMENT

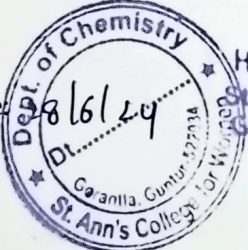
Name Of the Student: Thann Padeesha  
 Programme of Study: B.Sc.  
 Year of Study: II year  
 Group: B BC (Biotechnology, Botany, Chemistry)  
 Register No/H.T. No: 1223158008  
 Name of the College: St. Ann's College for women  
 University: Aditya Nagarajana university

SLNo	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	25
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	100

Date: 28/6/24

Signature of the Faculty Guide

Certified by

Date: 28/6/24  
 Seal:   
 Head of Dept. of Chemistry  
 St. Ann's College for Women  
 GORANTLA, GUNTUR-522034.  
 Signature of the Head of the Department/Principal  
 PRINCIPAL  
 GORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. Ch. Rajitha Reg. No. Y223153009  
of St. Ann's college for Women..... underwent Internship in Screening of L-Asparaginase producing bacteria  
from May 2024... to June 2024..... The overall performance of the Intern during him / ✓ her Internship is found  
to be Satisfactory.....

Date : 10/07/2024

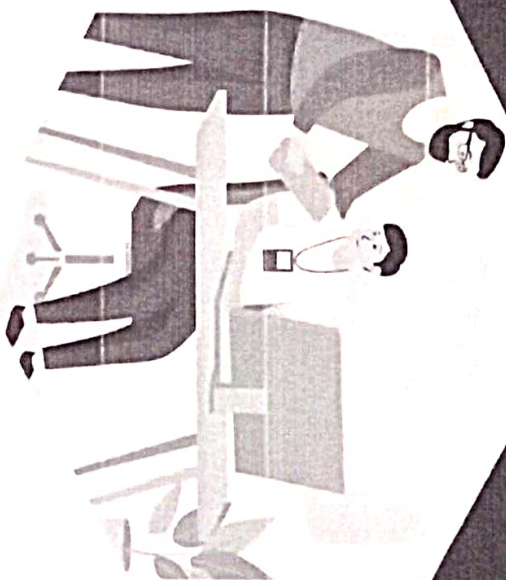


Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur-522-034



# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site / Virtual)

Designed & Developed by



**ANDHRA PRADESH**  
**STATE COUNCIL OF HIGHER EDUCATION**  
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



PROGRAM BOOK FOR

# SHORT-TERM INTERNSHIP

(Onsite / Virtual)

Name of the Student

Ah Raj-Ho

Name of the College

St Ann's college for women

Registration Number

Y223158009

Period of Internship:

From: May

To: June

Name & Address of the Intern Organization

Nexus Research  
Institute, Quantus

Ah Raj-Nagaxiana

University

YEAR 2024



# An Internship Report on

C. Aspergillus

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guideship of

V. Vanja m m

(Name of the Faculty Guide)

Department of Biotechnology

St. Ann's college for women

(Name of the College)

Submitted by:

Ch. Rajitha

(Name of the Student)

Reg.No: Y223158009

Department of Biotechnology

St. Ann's college for women

(Name of the College)



## Official Certification

This is to certify that Ch. Rajitha (Name of the student) Reg. No. 522358009 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on 1. August 2022 (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc in the Department of Biotechnology (Name of the College). St. Ann's College for Women

This is accepted for evaluation.

### Endorsements

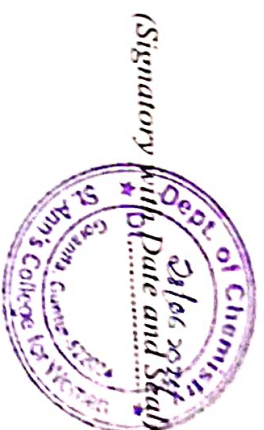
Faculty Guide

*Bar*

Head of Dept. of Chemistry  
~~Head of the College for Women~~  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Principal *Suresh*  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034





## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: Ch Rajitha

Programme of Study: BSC

Year of Study: II year

Group: Bio technology, Botany, chemistry.

Register No/H.T. No: Y123155555

Name of the College: ST, ANN'S COLLEGE FOR WOMEN.

University: Acharya Nagarjuna university.

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	23
2.	Internship Evaluation	50	48
3.	Oral Presentation	25	23
	GRAND TOTAL	100	94

Date: 28/06/2024

Signature of the Faculty Guide Bm  
of Women  
GORANTLA GUNTUR 2034

Certified by

Signature of the Head of the Department/Principal



Head of the Department  
St. Ann's College for Women  
Guntur

Sugel  
Principal  
St. Ann's College for Women  
GORANTLA GUNTUR 2034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. D. Shavani..... Reg. No. Y223158010  
of St. Ann's college for women..... underwent Internship in Screening of L-Asparaginase producing bacteria  
from May 2024 to June 2024.. The overall performance of the Intern during him / ✓ her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



Dr. Ch. Chiranjeevi  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur- 522 034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by  
Sravanireddy**

**Reg No: OAM202212525492      Hall Ticket No: Y223158010**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
STANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH  
2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



PROGRAM BOOK FOR

# SHORT-TERM INTERNSHIP

(Onsite / Virtual)

Name of the student: *Sravani.D*

Name of the college: *St. Ann's Women's Degree college*

Registration number: *Y223158010*

Period of internship:

From: *May* to: *June*

Name & address of the intern organization

*Nexus Research  
Institute, Guntur*

*Acharya Nagarjuna* UNIVERSITY

YEAR: *2024*



# An Internship Report on

L. Asparaginease

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guideship of

B. Joyce Mann

(Name of the Faculty Guide)

Department of Biotechnology

St. Ann's college for women

(Name of the College)

Submitted by:

Srevani. D

(Name of the Student)

Reg.No: Y223158010

Department of Biotechnology

St. Ann's college for women.

(Name of the College)



## Official Certification

This is to certify that Sravani D (Name of the student) Reg. No. Y223158016 has completed his/her Internship in Nexus Research Institute (Name of the Intern (Organization)) on 1. Asparaginase (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc in the Department of Biotechnology (Name of the College). St. Ann's college

This is accepted for evaluation.

(Signature with Date and Seal)



### Endorsements

Faculty Guide



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

swathy  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: Sravani D

Programme of Study: Bsc

Year of Study: 3<sup>rd</sup> year

Group: Biotechnology, Botany, Chemistry

Register No/H.T. No: Y223158016

Name of the College: St Ann's College for women

University: Acharya Nagarajuna University.

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	24
	GRAND TOTAL	100	97

Date: 28/06/2024

Signature of the Faculty Guide

Certified by



Head of Dept. of Chemistry  
Signature of the Head of the Department/Principal  
GORANTLA, GUNTUR-522034.

Principal  
GORANTLA, GUNTUR-522 034



# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**  
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. .... *G. Divya* ..... Reg. No. *Y223158011* .....  
of *St. Ann's College for Women*... underwent Internship in *Screening of L-Asparagine producing bacteria*  
from *May 2024*.. to *June 2024*... The overall performance of the Intern during him / her Internship is found  
to be *Satisfactory*.....

Date : *10/07/2024*



*Dr. Ch. Chiranjeevi*  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur-522-034



**PROGRAM BOOK FOR  
SHORT TERM  
INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by  
GOTTIMUKKALA DIVYA**

**Reg No: OAM202200083990**

**Hall Ticket No: Y223158011**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER  
EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA  
PRADESH)**



## An Internship Report on

L-Asparaginase (asparaginase)

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

B.Sc

Under the Faculty Guideship of

Mrs. B. Joyce N.T. kumari

(Name of the Faculty Guide)

Department of <sup>Chemistry</sup> ~~Bio~~technology

St. Ann's College for women

(Name of the College)

Submitted by:

Gottimukkala Divya

(Name of the Student)

Reg.No: 4223156011

Department of ~~Bio~~technology

St. Ann's College for women

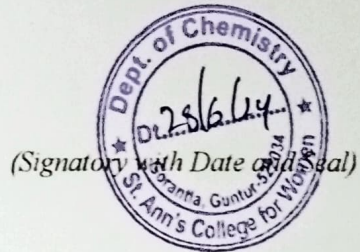
(Name of the College)



## Official Certification

This is to certify that G. Divya (Name of the student) Reg. No. V223159011 has completed his/her Internship in Nexus research institute (Name of the Intern Organization) on L. Asparagine (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC in the Department of Biotechnology (Name of the College). St. Ann's college for women

This is accepted for evaluation.



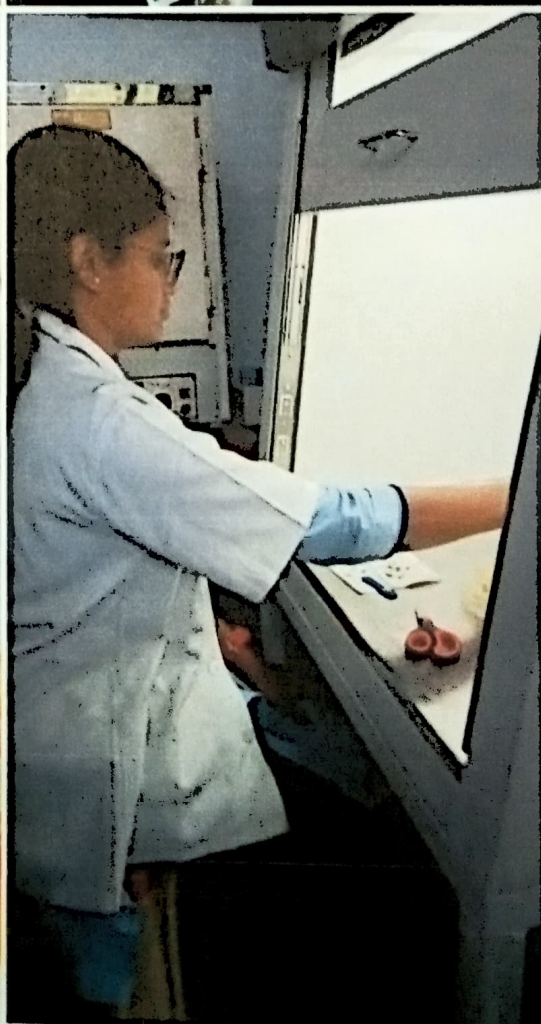
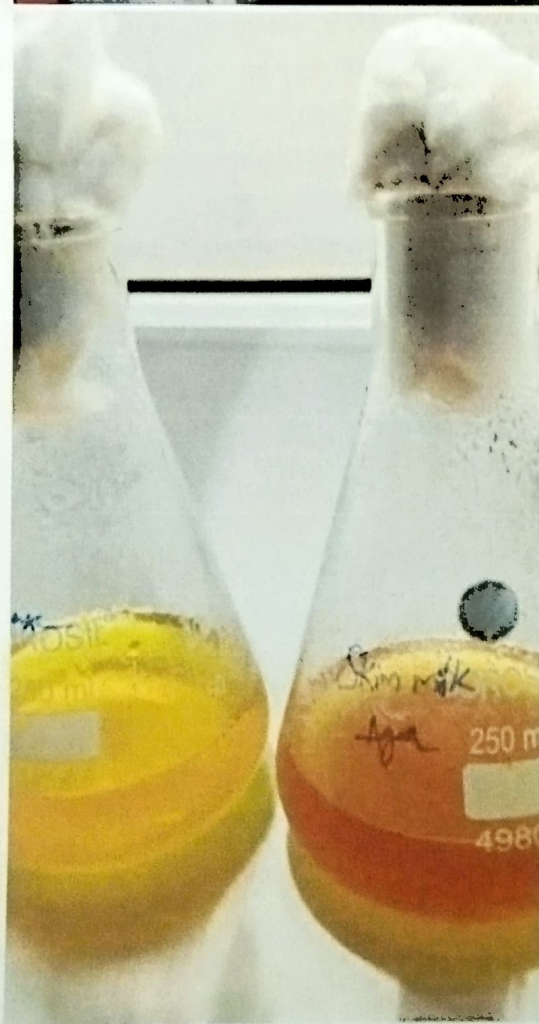
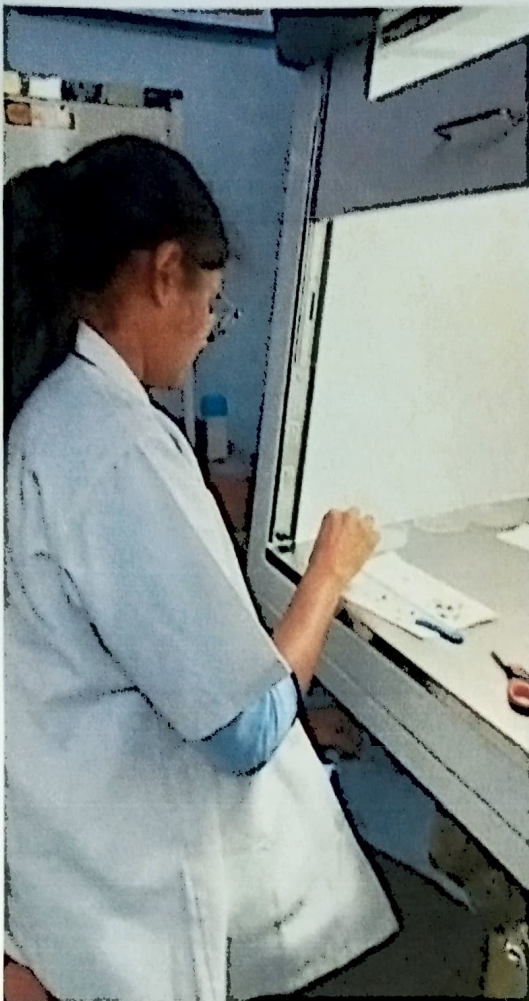
### Endorsements

Faculty Guide

Head of Dept. of Chemistry  
St. Ann's College for Women  
Gorantla, Guntur-522034.

Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034







## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: G. Divya

Programme of Study: B.Sc

Year of Study: 2<sup>nd</sup> year

Group: Biotechnology, Botany, chemistry

Register No/H.T. No: V223158011

Name of the College: St. Ann's college for women

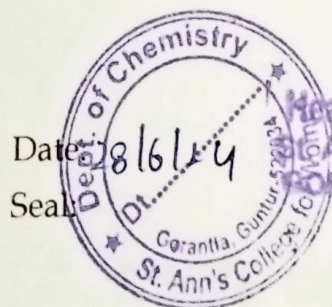
University: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	25
	GRAND TOTAL	100	98

Date: 28/6/24

Signature of the Faculty Guide

Certified by



Date:  
Seal

Head of Dept. of Chemistry  
Signature of the Head of the Department  
GORANTLA, GUNTUR-522034.

Signature of the Principal  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute

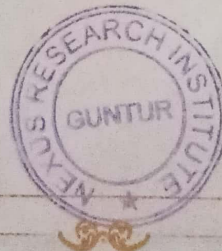
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. G. Naga Lakshmi Reg. No. Y223158012  
of St. Ann's college for Women underwent Internship in Screening of L-Asparaginase producing bacteria  
from May 2024 to June 2024. The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.

Date : 10/07/2024



Dr. Ch. Chiranjeevi

Director

DIRECTOR

NEXUS RESEARCH INSTITUTE

Nagaralu, Amaravathi Road

Guntur- 522 034





**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**GUNJI NAGA LAKSHMI**

**Reg No: OAM202200264214**

**Hall Ticket No: Y223158012**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION  
(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student: G. Naga lakshmi

Name of the College: ST. ANN'S COLLEGE FOR WOMEN

Registration Number: Y223158012

Period of Internship: From: May To: June

Name & Address of the Intern Organization: NEXUS RESEARCH INSTITUTE,  
GUNTUR

ACHARYA NAGARJUNA University  
YEAR 2024





## An Internship Report on

L-Asparaginase

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guidance of

Mrs. B. JOYCE MAH

(Name of the Faculty Guide)

Department of CHEMISTRY

ST. ANN'S COLLEGE FOR WOMEN

(Name of the College)

Submitted by:

G. Naga lakshmi

(Name of the Student)

Reg.No: Y223158012

Department of CHEMISTRY

ST. ANN'S COLLEGE FOR WOMEN

(Name of the College)

Page No: \_\_\_\_\_





## Official Certification

This is to certify that G. Naga lakshmi (Name of the student) Reg. No. Y223158012 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on 1- Asparaginase (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc in the Department of Biotechnology (Name of the College). St. Ann's college for women.

This is accepted for evaluation.



### Endorsements

Faculty Guide

Head of Dept. of Chemistry  
St. Ann's College for Women  
GUNTUR-522034.

PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: G. Naga lakshmi

Programme of Study: BSc

Year of Study: II year

Group: Biotechnology , Botany , Chemistry

Register No/H.T. No: Y2231580/12

Name of the College: ST. ANN'S COLLEGE FOR WOMEN

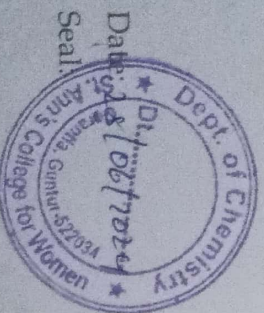
University: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	99

Date: 28/06/2024

Signature of the Faculty Guide

Certified by



Head of Dept. of Chemistry  
Signature of the Head of the Department

PRINCIPAL  
Department of Principal Women  
GORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. Mr. Madhavi..... Reg. No. Y22B158019...  
of St. Ann's college for Women..... underwent Internship in Screening of Protease Producing bacteria...  
from May 2024 to June 2024... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



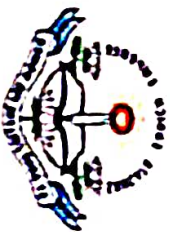
Dr. Ch. Chiranjeev  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur- 522 034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**MADIRAJU. MADHAVI**

**Reg No: OAMDC202200166530**

**Hall Ticket No: Y223158019**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY**

**ST. ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



**PROGRAM BOOK FOR**  
**SHORT-TERM INTERNSHIP**  
**(Onsite / Virtual)**

Name of the Student: *M. Madhavi*

Name of the College: *St. Ann's College for Women*

Registration Number: *V223158019*

Period of Internship: From *May* To *June*

Name & Address of the Intern Organization: *Nexus Research Institute, Gundlupet*

*Acharya Jagadisa*  
**University**  
YEAR *2024*



## Official Certification

This is to certify that M. Madhavi (Name of the student) Reg. No. V222158D19 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on protease (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC in the Department of chemistry (Name of the College). St. Ann's college for women.


This is accepted for evaluation.

### Endorsements

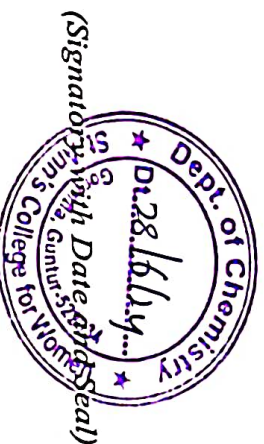
Faculty Guide



Head of Dept. of Chemistry  
St. Ann's College for Women  
Gorantla, Bellary-522034.

  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

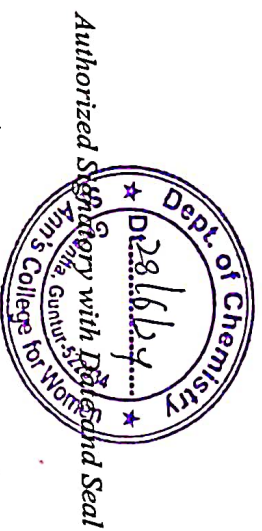




## Certificate from Intern Organization

This is to certify that M. Madhav (Name of the intern)  
Reg. No 4723158019 of St. Ann's college (Name of the  
College) underwent internship in Alexandria research institute (Name of the  
Intern Organization) from May to JUNE.

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





## Student's Declaration

I, M. Machav, a student of II BSc [BSc] Program, Reg. No. 4723158019, of the Department of Chemistry College do hereby declare that I have completed the mandatory internship from May to June in Neaus Research Institute (Name of the intern organization) under the Faculty Guideship of Mrs. B. Jayce (Name of the Faculty Guide), Department of Dept of Chemistry, in St. Ann's college for women (Name of the College)

M. Machav

(Signature and Date)



## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: M. Madhavi.

Programme of Study: BSC

Year of Study: II year

Group: Biotechnology, Botany, Chemistry

Register No/H.T. No: V223158019

Name of the College: St. Ann's college for women

University: Acharya Nagarjuna University.

SlNo	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	25
	GRAND TOTAL	100	98

Date: 28/6/24

Signature of the Faculty Guide

Certified by

Head of Dept. of Chemistry

Date: 28/6/24  
Seal of St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Principal

PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

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4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. N. Sahithi..... Reg. No. Y223158020  
of St. Ann's college for Women..... underwent Internship in Screening of Protease producing bacteria  
from May 2024... to June 2024..... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



Dr. Ch. Chiranjeevi  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravati Road  
Guntur-522 034



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by  
NIMMA, SAHITHI**

**Reg No: OAMDC202200239997      Hall Ticket No: Y223158020**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST. ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION  
(A STATUTORY BODY OF GOVT. OF ANDHRA PRADESH)**



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(onsite / Virtual)

Name of the Student: N. Sahithi

Name of the College: St. Ann's college for women

Registration Number: Y223158020

Period of Internship: From May to June

Name & Address of the Intern Organization: Nexus Research  
Institute, Guntur

Acharya Nagasajana University  
YEAR 2024



# An Internship Report on

Protease

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSC

Under the Faculty Guideship of

Mrs. B. JOYCE

(Name of the Faculty Guide)

Department of Chemistry

St. Ann's college for women

(Name of the College)

Submitted by:

N. Sahithi

(Name of the Student)

Reg.No: Y223158020

Department of Chemistry

St. Ann's college for women

(Name of the College)



## Student's Declaration

I, N. Sachithi a student of II BSc (BBC)  
Program, Reg. No. Y223158020 of the Department of chemistry  
College do hereby declare that I have completed the mandatory internship  
from May to June in NEXUS RESEARCH <sup>INSTITUTE</sup> (Name of  
the intern organization) under the Faculty Guideship of  
Mrs. B. Joyce (Name of the Faculty Guide), Department of  
Dept of chemistry, ST. Ann's college for women  
(Name of the College)

N. Sachithi  
(Signature and Date)



## Official Certification

This is to certify that N. Sahithi (Name of the student) Reg. No. Y2-23158020 has completed his/her Internship in Nexus research institute (Name of the Intern Organization) on Protease (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc in the Department of Chemistry (Name of the College). St. Ann's college for women

This is accepted for evaluation.

### Endorsements

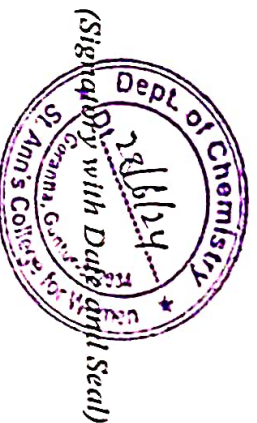
Faculty Guide



Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

S. Macell  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

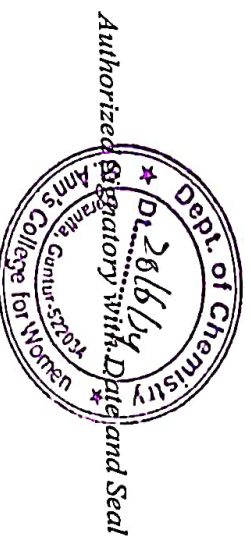




## Certificate from Intern Organization

This is to certify that N. Sahithi (Name of the intern)  
Reg. No Y2223158020 of St. Ann's college for women (Name of the  
College) underwent internship in Nexus research Institute (Name of the  
Intern Organization) from May to June

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





# INTERNAL ASSESSMENT STATEMENT

Name Of the Student: N. Sahithi  
 Programme of Study: BSC  
 Year of Study: II year  
 Group: Biotechnology, Betam, chemistry  
 Register No/H.T. No: 7223158020  
 Name of the College: St. Ann's college for women  
 University: Adarsha Nagajuna University

SLNo	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	23
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	23
	GRAND TOTAL	100	96

Date: 28/6/24

Signature of the Faculty Guide

Certified by

Head of Dept. of Chemistry  
 St. Ann's College for Women  
 GORANTLA, GUNTUR-522034.  
 Date: 28/6/24  
 Seal

PRINCIPAL  
 GORANTLA, GUNTUR-522 034



# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. Ms. Sugma Aparna ..... Reg. No. Y223158024....  
of St. Ann's College for Women... underwent Internship in Screening of Protease producing bacteria...  
from May 2024 to June 2024. The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



Dr. Ch. Chiranjeevi  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur-522 034



**PROGRAM BOOK FOR  
SHORT TERM  
INTERNSHIP**

**Submitted in accordance with the requirement for the Degree of  
BACHELOR OF SCIENCE**



**Submitted by**

**NUTALAPATI SUSHMA APARNA**

**Reg No: OAM202200136797**

**Hall Ticket No: Y223158021**

**PERIOD OF INTERNSHIP : From : MAY To: JUNE**

**NAME OF THE ORGANIZATION: NEXUS RESEARCH INSTITUTE**

**Under the Guidance of**

**Mrs. B. JOYCE.**

**DEPARTMENT OF CHEMISTRY  
ST.ANN'S COLLEGE FOR WOMEN**

**(AFFILIATED TO ACHARYA NAGARJUNA UNIVERSITY), GORANTLA, GUNTUR -34**

**ANDHRA PRADESH**

**2023-2024**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER  
EDUCATION**

**(A STATUTORY BODY OF GOVT. OF ANDHRA  
PRADESH)**



# An Internship Report on

Protease

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guideship of

Mrs. B. Joyce

(Name of the Faculty Guide)

Department of

Chemistry

(Name of the College)

Submitted by:

N. Sushma Aparna

(Name of the Student)

Reg.No: 4223158021

Department of

St. Ann's college for women

(Name of the College)

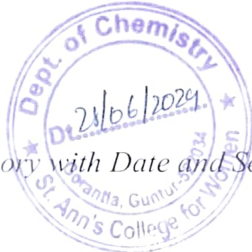


## Official Certification

This is to certify that N. Sushma Aparna (Name of the student) Reg. No. 4223158021 has completed his/her Internship in Nexus research institute (Name of the Intern Organization) on Protease (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of Bsc in the Department of \_\_\_\_\_ (Name of the College). ST Ann's College for Women.

This is accepted for evaluation.

(Signatory with Date and Seal)



### Endorsements

Faculty Guide

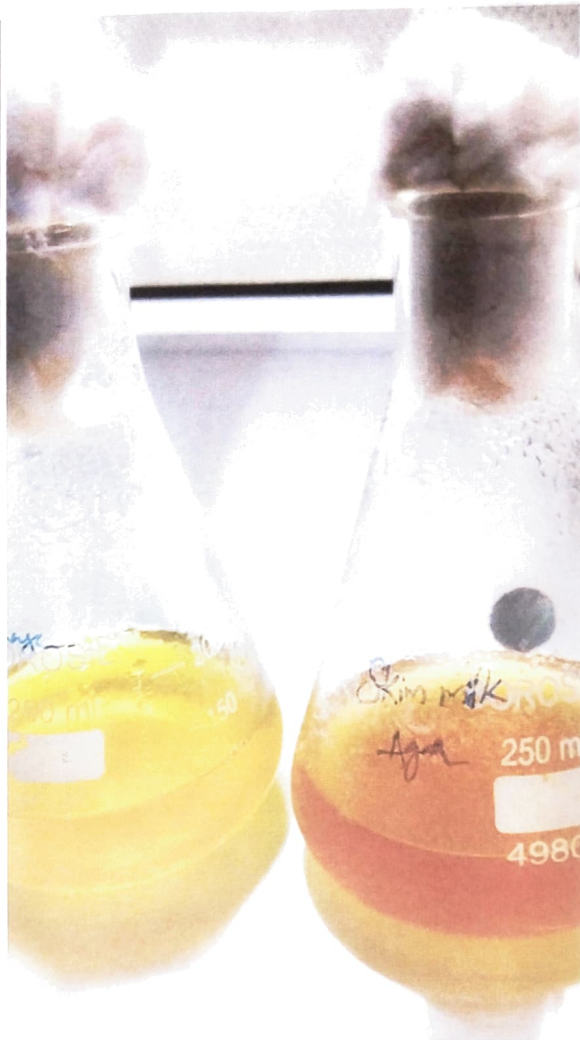


Head of Dept. of Chemistry  
Head of the Department  
GORANTLA, GUNTUR-522034.



PRINCIPAL  
Principal  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034







## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: *M. Sushma. dhanu*  
Programme of Study: *BSc*  
Year of Study: *II Year*  
Group: *Biotechnology, Botany, Chemistry*  
Register No/H.T. No: *4223158021*  
Name of the College: *St. Ann's College for Women*  
University: *Acharya Nagarajuna University*

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	24
	GRAND TOTAL	100	97

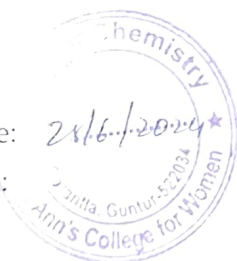
Date: *28/06/2024*

*[Signature]*  
Signature of the Faculty Guide

Certified by

Date: *28/6/2024*

Seal:



*[Signature]*  
Head of Dept. of Chemistry  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

Signature of the Head of the Department/Principal

*[Signature]*  
PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. P. Sirisha Reg. No. Y223158022

of St. Ann's college for women underwent Internship in Screening of Postage, Preserving bacteria

from May 2024 to June 2024 The overall performance of the Intern during him / ✓her Internship is found

to be Satisfactory

Date : 10/07/2024



Duchingis  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravathi Road  
Guntur-522 034



## An Internship Report on

L. Aparajitha

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guideship of

K. Vidhyadhar

(Name of the Faculty Guide)

Department of Bio technology

St. Ann's college for women

(Name of the College)

Submitted by:

Shrisha P

(Name of the Student)

Reg. No: Y223158022

Department of Bio technology

St. Ann's college for women

(Name of the College)



## Official Certification

This is to certify that Srissha P (Name of the student) Reg. No. 1223158022 has completed his/her Internship in Nexus Research Institute of the Intern Organization) on L. Appraginavar (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSc in the Department of Biotechnology (Name of the College). St. Ann's College for Women

This is accepted for evaluation.



### Endorsements

Faculty Guide

*[Signature]*

Head of Dept. of Chemistry  
Head of the Department for Women  
GORANTLA, GUNTUR-522034

*[Signature]*  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



## Certificate from Intern Organization

This is to certify that Shrutha P (Name of the intern)  
Reg. No 4223158022 of St. Ann's college (Name of the  
College) underwent internship in Nexus research institute (Name of the  
Intern Organization) from May to June

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



Authorized Signatory with Date and Seal



# INTERNAL ASSESSMENT STATEMENT

Name Of the Student: P. Srisisha  
 Programme of Study: B.Sc  
 Year of Study: 1<sup>st</sup> Year  
 Group: Biotechnology, Botany, Chemistry  
 Register No/H.T. No: Y12315802  
 Name of the College: St. Ann's College for Women  
 University: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	25
2.	Internship Evaluation	50	50
3.	Oral Presentation	25	25
	GRAND TOTAL	100	100

Date: 28/6/2024

Signature of the Faculty Guide

Certified by

Head of Dept. of Chemistry  
 St. Ann's College for Women  
 PANITLA, GUNTUR-522034.  
 Date: 28/6/2024  
 Seal: St. Ann's College for Women  
 PRINCIPAL  
 CORANTLA, GUNTUR-522 034



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagarlau, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



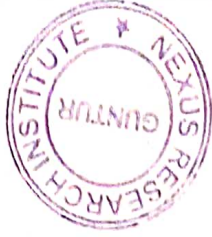
## Certificate of Completion

This is to certify that Mr. / Ms. Shak Farhat Nazma Reg. No. X223158026

of St. Ann's College for Women..... underwent Internship in Scanning & Protagis Protagis India  
from May 2024..... to June 2024..... The overall performance of the Intern during him / her Internship is found

to be Satisfactory.....

Date: 10/07/2024



DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagarlau, Amaravathi Road  
Guntur-522 034

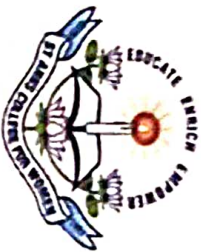
Dr. S. S. Srinivas  
Director



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

Submitted in accordance with the requirement for the

**Degree of BACHELOR OF SCIENCE**



Submitted by

**SHAIK.FARHATH NAZMA**

Reg. No: 202200193483

Hall Ticket Number : Y223158026

Period of internship : May to June

Name of the organization: Nexus research  
Institute,Guntur

Under the guidance of  
Mrs. B. Joyce

**DEPARTMENT OF CHEMISTRY**

**ST.ANN'S COLLEGE FOR WOMEN**

(Affiliated by Acharya Nagarjuna University) Gorantla,Guntur-34.

**ANDHRA PRADESH**



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student: Shaik. Farhath Nazma

Name of the College: St. Ann's College for Women

Registration Number: Y223158026

Period of Internship: From: May To: June

Name & Address of the Intern Organization: NEXUS RESEARCH  
INSTITUTE, GUNTUR.

Acharya Nagasajana University  
YEAR 2024



# An Internship Report on

Protease

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

Bsc

Under the Faculty Guideship of

Mrs. B. Tojce

(Name of the Faculty Guide)

Department of Chemistry

St. Ann's College for Women

(Name of the College)

Submitted by:

Shaik. Eashath Nazma

(Name of the Student)

Reg.No: Y223158026

Department of Bio-Technology

St. Ann's College for Women

(Name of the College)



## Official Certification

This is to certify that SK. Farhath Nazma (Name of the student) Reg. No. Y223158026 has completed his/her Internship in Nerus Research Institute (Name of the Intern Organization) on Protease (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of Bsc in the Department of Biotechnology (Name of the College). St. Ann's college for women

This is accepted for evaluation.



### Endorsements

Faculty Guide

Head of Dept. of Chemistry  
~~SHANMUKA DEVI~~  
GORANTLA, GUNTUR-522034.

SHANMUKA DEVI  
PRINCIPAL

St. Ann's College for Women  
GORANTLA, GUNTUR-522 034



## Certificate from Intern Organization

This is to certify that Sk. Fazhath Nazma (Name of the intern)  
Reg. No YJ223158026 of St. Ann's college (Name of the  
College) underwent internship in Nexus Research Institute (Name of the  
Intern Organization) from may to June

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

Authorized Signatory with Date and Seal





## Student's Declaration

I, Sk. Fakhath Nazma a student of II Bsc [BSC] Program, Reg. No. 2223158026 of the Department of Bio-Technology College do hereby declare that I have completed the mandatory internship from may to June in NEXUS RESEARCH INSTITUTE (Name of the intern organization) under the Faculty Guideship of Mrs. B. Joyce (Name of the Faculty Guide), Department of Dept. of Chemistry, St. Ann's college for women (Name of the College)

Sk. Fakhath Nazma

*(Signature and Date)*



## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: Gk. Farhath NazmaProgramme of Study: BscYear of Study: II yearGroup: Biotechnology, Botany, ChemistryRegister No/H.T. No: Y223158026Name of the College: St. Ann's college for womenUniversity: Acharya Nagarjuna University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	24
2.	Internship Evaluation	50	49
3.	Oral Presentation	25	24
	GRAND TOTAL	100	97

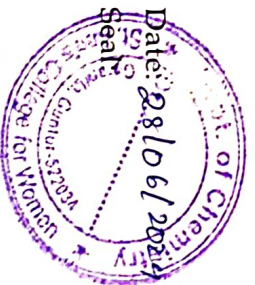
Date: 28/06/2024

Signature of the Faculty Guide

Certified by

Head of Dept. of Chemistry  
 Signature of the Head of the Department  
 GORANTLA, GUNTUR-522034.

Principal  
 Signature of the Principal  
 GORANTLA, GUNTUR-522 034



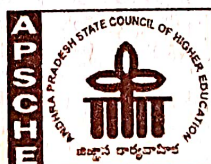


# Model Program Book



## SHORT-TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION**  
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Submitted in accordance with requirement for degree of  
BACHELOR OF SCIENCES**



Submitted by  
Sumukhi . Talada

Registration no : OAM202200180429 Hall ticket no:Y223158029

Period of internship : From : May To : June

Name of organization: Nexus Research Institute

Under the guidance of  
Mrs. Joyce busi  
Department of chemistry

**ST.ANN'S DEGREE COLLEGE FOR WOMEN**

(Affiliated to ACHARYA NAGARJUNA UNIVERSITY ) Gorantla, Guntur-34

**ANDHRA PRADESH**

**ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION  
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)**



# NEXUS RESEARCH INSTITUTE

Micro, Small & Medium Enterprises, Government of India : Certified Institute  
4<sup>th</sup> Lane, Munuswamy Nagar, Nagaralu, Amaravati Road, Guntur, Andhra Pradesh, PIN - 522 034



## Certificate of Completion

This is to certify that Mr. / Ms. T. Sumukhi..... Reg. No. Y223158029  
of St. Ann's college for women..... underwent Internship in Screening of bacteria producing bacteriocin  
from May 2024 to June 2024.... The overall performance of the Intern during him / her Internship is found  
to be Satisfactory.....

Date : 10/07/2024



D. Ch. Chiranjeev  
Director

DIRECTOR  
NEXUS RESEARCH INSTITUTE  
Nagaralu, Amaravati Road  
Guntur - 522 034



PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
(Onsite / Virtual)

Name of the Student: *Sumukhi Talada*

Name of the College: *St. Ann's degree college for women*

Registration Number: *4228158029*

Period of Internship: From: *May* To: *June*

Name & Address of the Intern Organization *NEXUS RESEARCH INSTITUTE*  
*Guntur*

*Acharya Nagarjuna* **University**  
YEAR -2024



## An Internship Report on

Screening of Protease producing bacteria

(Title of the Internship)

Submitted in accordance with the requirement for the degree of

BSc

Under the Faculty Guideship of

Mrs. Joyce busi

(Name of the Faculty Guide)

Department of

St. Ann's degree college for women

(Name of the College)

Submitted by:

Sumukhi Talada

(Name of the Student)

Reg.No: 4223158029

Department of

St. Ann's degree college for women

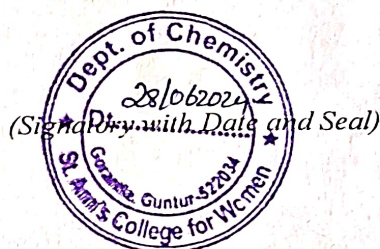
(Name of the College)



## Official Certification

This is to certify that Sumukhi Talada (Name of the student) Reg. No. V223158029 has completed his/her Internship in Nexus Research Institute (Name of the Intern Organization) on Screening of protease (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of Bsc in the Department of (Biotechnology) (Name of the College). St. Ann's degree college for women

This is accepted for evaluation.



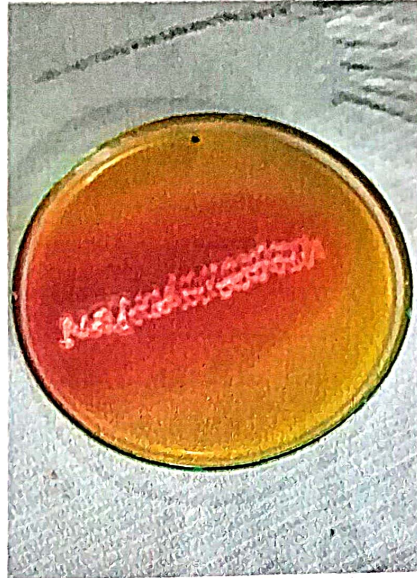
Endorsements

Faculty Guide

Head of Dept. of Chemistry  
Head of the Department  
St. Ann's College for Women  
GORANTLA, GUNTUR-522034.

Principal  
PRINCIPAL  
St. Ann's College for Women  
GORANTLA, GUNTUR-522 034

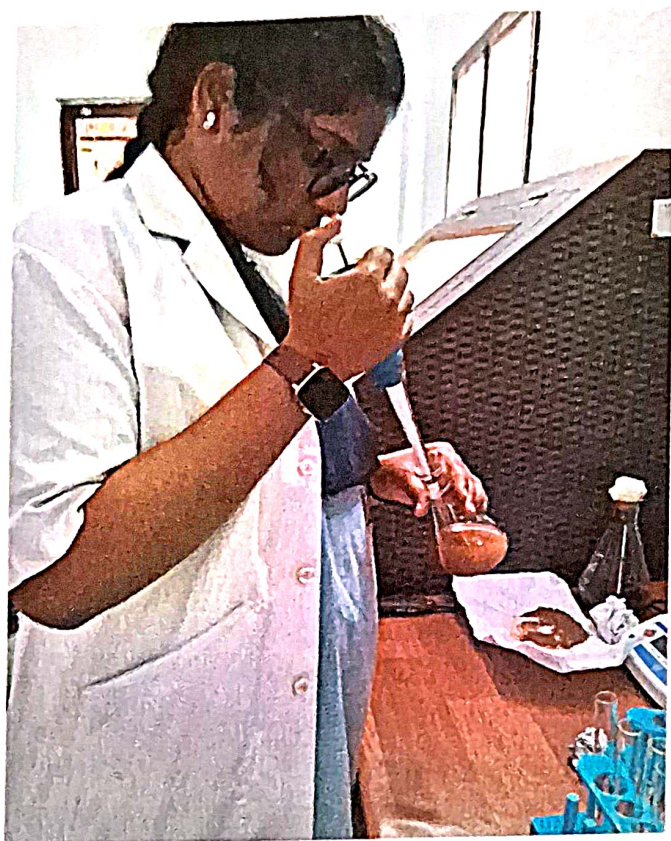














## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: *Sumeethi Jalada*

Programme of Study: *BSC*

Year of Study: *III<sup>rd</sup>*

Group: *Biotechnology.*

Register No/H.T. No: *Y223158029*

Name of the College: *St. Ann's degree college for women*

University: *Acharya Nagarjuna University*

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	<i>24</i>
2.	Internship Evaluation	50	<i>49</i>
3.	Oral Presentation	25	<i>25</i>
	GRAND TOTAL	100	<i>98</i>

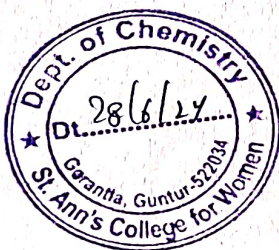
Date: *28/6/24*

*Pon*  
Signature of the Faculty Guide

Certified by

Date:

Seal:



Signature of the Head of the Department/Principal

*S. Ann's*  
**Head of Dept. of Chemistry**  
**St. Ann's College for Women**  
**GORANTLA, GUNTUR-522034.**

**PRINCIPAL**  
**St. Ann's College for Women**  
**GORANTLA, GUNTUR-522 034**