



## Long Term Internship Certificate

This is to certify that

**SURLA RAMANA BABU**

Mrs.A.V.N. College

has successfully completed 15 weeks

**SYSTEM ADMINISTRATION**

During Apr-Jul 2023

Supported By IICTE

Mrs.A.V.N.College  
Visakhapatnam,Andhra pradesh



Director  
IICTE PVT LTD

# LONG TERM INTERNSHIP

Project report

## Acknowledgements

It gives me an immense pleasure and pride to express my sincere gratitude and respect for my teacher and guide *MR.G. SATHYAM Lecturer in SANSKRIT, Mrs AVN COLLEGE, Visakhapatnam* for his expert and inspiring guidance.

Also, I am very grateful to the head of the Department of *SANSKRIT*, and the other faculty members of the *SANSKRIT* Department for being a source of support during this project period.

I would like to extend my gratitude to my principal *Sir Dr. SIMHADRI NAIDU* for providing me all the necessary facilities that were required for successful completion of this internship.

I also thank *ICTE Private Limited, Visakhapatnam* for providing internship opportunity. My special thanks to the internship trainer *Sri. E. NAGESWARARAO* for their constant support, encouragement and timely advice.

B. Ramana babu  
Signature of the student

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Est'd: 1950

# LONG TERM INTERNSHIP

## INTRODUCTION

Internship is an integral platform for anyone to gain experience in the actual work place. Thus, Internship is a good opportunity for students to learn, to gain experience and also to make preparations. Men learn through experience and real life is full of different kinds of experiences. We will encounter many difficulties and obstacles and with experiences we are expected to be able to encourage and complete the process. Experience in my eyes is a very valuable thing in life because we need to be brave in taking risks. It is also not something that we simply create, but we need to undergo through it. By doing my internship in an actual work environment, it helps me to know and discover myself from different angles. It also helps me to control and develop my attitude towards dealing with different kinds of people and situations.

I have decided to take the internship course to grab the golden opportunity to apply theoretical knowledge that I have in a real working environment. Through college, I learned about theories but doing an internship, I learned a practical approach on dealing with the real world. Even though it was not that much, it still has profound results in some aspects of my life. In some ways, through internship, I also have learned that I am still lacking as an individual and employee. Internship helps me to identify my weaknesses and also my strengths. "Experience without theory is blind, but theory without experience is mere intellectual play". The other reason why I choose to take the internship is as preparation for a more challenging work environment and situation. Our life in college is incomparable with real working experience. A working life is very challenging as it requires great effort, commitment and abilities; those are something that I need to be prepared and trained to.

Apart from that, I really want to gain professional experience and skills by taking the internship course. At the same time, I also want to improve my communication skills and ability to interact with people. I realize that by being part of society, I will need to meet different people around the office and I will have to communicate with them to settle their needs. Undergoing internship also helps to make me learn on how to work in a systematic organization. It helps me to learn how to be independent in accomplishing my tasks. Besides, all knowledge that I have learnt through my classroom learning in the classroom can be implemented through an internship. Not only that, by doing an internship, I am able to undergo challenges which are normal in a working life setting.



CHAPTER I: EXECUTIVE SUMMARY

data base integration :

I sought to acquire knowledge exposure to integrating administration application with data bases, though data base design greatly optimization and utilizing administration's data base API, SE successfully integrated applications with different data base systems.

problem-solving and debugging :

An essential aspect of the internship was improving my problem-solving and debugging skills. As part of the development team I encountered various challenges and bugs which required me to analyze, identify and resolve issues efficiently. This experience sharpened my problem solving abilities.

⇒ Team collaborations :

The internship provided an opportunity to develop effective team work and collaboration skills - working closely with the development team I actively participated in meetings, discussions and code reviews, it allowing me to enhance my communication team work abilities.

## CHAPTER 2: OVERVIEW OF THE ORGANIZATION

### Suggested Contents

#### A. Introduction of the Organization

Company which provides technology solutions to over customers with convergence of media, the changing landscape of the industries is becoming extremely competitive. As companies rapidly strive to gain a competitive advantage, **IICTE** helps companies innovative and transforms its unique insights, differentiated services and flexible partnering models. This helped our customers reduce operating costs and generate new revenue streams. We provide high end business solutions for complex business utilizing current technologies with expert professions in software industries. Our project is based on the principles of highest quality, longest reliability, lowest cost and complete customer satisfaction.

At **IICTE PVT LTD** we provides **Software Products, IT services, HR consultancy, Security Systems, and various Transaction Processing Services**. **IICTE** has integrates its products and services to create customized solutions to allow you to undertake technology-based business transformation that allows reorganization in line with today's dynamic digital business environment.

#### B. Vision, Mission and Values of the Organization

**IICTE PVT LTD** is a service provider company committed to help business providing qualified resources, and professional services with the highest quality in different areas and we will leverage our strengths to execute complex global-scale projects to facilitate leading-edge products and services affordable to all consumers and business in India. As **IICTE** has developed its quality initiative and casts its process with perfect customization as per the client needs while meeting the defined standards. So here we will offer unparalleled value to create customer delight and enhance business productivity.

So quality is our measurable factor for us. It is our responsibility towards our valued clients who are the very cause of our existence.

#### C. Policy of the Organization in relation to the intern role

In the competitive IT services industry, it's difficult to know what differentiates one company from the other, so to keep pace with today customer-driven business environment; companies must re think their business processes. As companies are facing increasing competitive pressure and are inhabitant by inefficient IT systems, it is clear that current enterprise applications are no longer meeting the business demands. So with **IICTE**, you can be certain that we put our



customer's interests first: we take a unique approach to fostering client, member (employee) and customer's satisfaction.

IICTE PVT LTD delivers solutions that address this with flexible enterprise applications that can be delivered quickly and cost-effectively into complex environments. The IICTE PVT LTD team represents the architecture of our approach. It governs how we deliver services to clients, how we interact with members and how we respond to customers requirements. IICTE is committed to helping our clients with win and grows to

## D: Organizational Structure

IICTE PVT LTD is a globally focused services provider spread for serving customers, providing end-to-end services from IT development.

Our business encompasses a complete range of services that covering IT development, HR-Consultancy and various security systems etc. We endeavor to further extend our efforts beyond the traditional value chain by developing and deploying complete user friendly solutions for the entire spectrum of society.

### Company area of business in IT side:

- ❖ Application development & maintenance
- ❖ Package implementation
- ❖ Web solutions
- ❖ Multimedia
- ❖ Content development
- ❖ Product design services
- ❖ Software development
- ❖ Web designing/ web publishing
- ❖ Graphics
- ❖ Data processing
- ❖ Hardware consultancy
- ❖ Wireless solutions
- ❖ Network solutions
- ❖ IT training
- ❖ Video conference
- ❖ Web hosting



## D. Roles and responsibilities of the employees in which the intern is placed.

- ❖ Business communication skills
- ❖ Team building
- ❖ Team working skills
- ❖ Personal productivity (motivation)
- ❖ Creative thinking
- ❖ Presentation skills
- ❖ Leadership for project leaders
- ❖ Time and self management
- ❖ Effective meetings
- ❖ Cross culture.

## E. Performance the Organization Terms of turnover, profits, market reach and market value.

Traditionally, a marketing plan includes the four P's: Product, Price, Place, and Promotion. For a software company business plan, your marketing strategy should include the following:

**Product:** In the product section, you should reiterate the type of software company that you documented in your company overview. Then, detail the specific products or services you will be offering. For example, will you provide open source programming, SaaS products, or software to support Microsoft systems?

**Price:** Document the prices you will offer and how they compare to your competitors. Essentially in the product and price sub-sections of your plan, you are presenting the products and/or services you offer and their prices.

**Place:** Place refers to the site of your software company. Document where your company is situated and mention how the site will impact your success. For example, is your software company located in a professional technology park, a standalone building or is it purely online? Discuss how your site might be the ideal location for your customers.

**Promotions.** The final part of your software company marketing plan is where you will document how you will drive potential customers to your location(s). The following are some promotional methods you might consider:

- Quarterly press releases to industry-wide interest groups
- Engage in social media mining and marketing
- Offer informative blogs; become a speaker in seminars
- Create a strong presence at tech trade shows and conferences
- Give expert opinions on tech social media platforms
- Improve the SEO (search engine optimization) on your website for targeted keywords

#### **F. Future Plans of the Organization.**

Our speculations for the future say that AI, machine learning, and data science will affect all spheres, and software code will automate most jobs worldwide. And all the software running around the world will need experts in software engineering to develop, maintain, and improve their working. This means that the software engineer demand in the future is going to rise, for more managerial roles like taking care of automated software, etc.

The customer demands for software are altering daily in the market, which has opened the sphere of innovation for organizations. While the new technologies being used today demand new skills and the assistance of skilled and experienced software engineers, the software engineers are working hard to learn new languages and stay updated with the trends.

Along with skills, software engineers will need to possess higher levels of ethics and integrity to work in data privacy and transparent AI applications. Software engineers' future prospects will increase as they adapt to the ever-changing digital world around them.

1. Cloud services
2. Artificial intelligence
3. Low code development

## WEEKLY ACTIVITY LOG

### ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief Description of The Daily Activity	Learning Outcome	Person In-Charge Signature
Day -1 01/04/2023	computer and its advantage	learn about the computer its advantage and the basic	
Day -2 03/04/2023	peripherals	learn about the devices / input output	
Day -3 04/04/2023	cpu and memory	learn about the CPU, ALU, CU	
Day -4 05/04/2023	Briefly description about Rom	learn about non-volatile memory units used	
Day -5 06/04/2023	Brief description about RAM	random access memory activate -> deactivate	
Day -6 07/04/2023	Ram slots, type, pc and of capacity	slot = S1, Simm ① Dimm ② Rimm	



WEEKLY REPORT  
WEEK - 1. (From Dec 21/2024 to Dec 28/2024.)

Objective of the Activity Done: central processing unit

Detailed Report:

- crucial component of a computer system
- Brain of the computer because it performs most of the processing inside the system.
- Function :- The CPU carries out instructions from computer programs by performing basic arithmetic
- multi core which means enhancing performance
- clock speed is CPU performance is often measured by its speed.
- cache is CPU have built in cache memory that stores accessed data to reduce the time it
- instruction set architecture
- Thermal design power
- over clocking
- compatibility

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief Description of The Daily Activity	Learning Outcome	Person In-Charge Signature
Day -1 08/04/2023	Explanation of HDD, HDD, e.n	HDD primary extended ① IDE ② SATA ③ SSD	
Day -2 09/04/2023	Explanation of mother board panels	panels: ① Rack Ex <sup>o</sup> mouse ② Front Ex <sup>o</sup> pen drive	
Day -3 11/04/2023	Communication ① serial communication ② parallel communication	→ one after another → A bundle of data	
Day -4 12/04/2023	Hard disk its partitions	Hard disk primary, secondary storage	
Day -5 13/04/23	Student doubt clarification class	Attended	
Day -6 14/04/23	Extd: 18 Lab	Lab	

WEEKLY REPORT  
WEEK - 2. (From DL 20/11/23 to DL 26/11/23.)

Objective of the Activity Done: Communication

Detailed Report:

- Network communication computer can communicate with each other over networks such as area network (LAN)s
- protocols communication between computer often specific protocols which are set of rules and formats.
- data transmission = data can be transmitted between computer in various formats such as text, image, audio, video, or binary data.
- socket and ports are used to establish sockets and ports are network communication connections between computers.
- client-server model
- APIs and web services = software systems
- inter process communication
- device communication



ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief Description of The Daily Activity	Learning Outcome	Person In-Charge Signature
Day -1 15/04/2023	Small questionnaire on topics	Attended	
Day -2 17/04/23	Explanation of operating system	the group of programme which are integrated	
Day -3 18/04/23	Types of operating system	types of o.s ① text mode ② Graphical mode	
Day -4 19/04/23	Description about inside parts of the CPU	→ mother board ② .RAM ③ memory	
Day -5 20/04/23	Architecture about 1. ALU 2. CU 3. memory	learned about the central of application system	
Day -6 21/04/23	Estd: 1860 Lab	Lab	

WEEKLY REPORT  
WEEK - 3. (From Dt. 15/04/23 to Dt. 21/04/23.)

Objective of the Activity Done: Architecture about CPU

Detailed Report.

- ⇒ control unit : The control unit manages the execution of instructions.
- ⇒ Arithmetic logic unit (ALU) = The ALU performs arithmetic operations of data, logical comparisons.
- ⇒ Registers = Register and high-speed storage units located within the CPU  
program counter structure register  
Accumulator
- ⇒ memory management unit
- ⇒ caches = CPUs have multiple level of cache memory and main memory (CPU)
- ⇒ Instruction pipeline
- ⇒ Bus interface set architecture
- ⇒ clock and control signals.

ACTIVITY LOG FOR THE FOURTH WEEK

Day & Date	Brief Description of The Daily Activity	Learning Outcome	Person In-Charge Signature
Day -1 22/04/2023	VIVO on completed topics	Based on the introduction of topics	
Day -2 23/04/2023	Week test	we learnt about the week chat	
Day -3 25/04/23	microsoft office explanation	it is the largest software	
Day -4 26/04/23	class on note pad	understand the process of using it	
Day -5 27/04/23	class on note pad with shortcuts	understand the shortcut used in the note	
Day -6 28/04/23	Lab	Lab	