

**PROGRAM BOOK FOR  
SEMESTER INTERNSHIP**



**Name of the Student:** PANGI KRUPADANAM

**Name of the College:** MRS AVN COLLEGE

Visakhapatnam.

**Registration Number:** 120130801086



**Period of Internship:** 15 weeks (540 Hours) **From:** 01.04.2023 **To:** 14.07.2023

**Name & Address of the Intern Organization:**

ICTE Private Limited. Plot No. 24, Opposite Y School, Srinivasa Nagar, GITAM College Road, Visakhapatnam, Andhra Pradesh.

**Mrs AVN COLLEGE, Visakhapatnam.**

**Andhra University**

**YEAR 2022-2023**

## Student's Declaration

I, **PANGI KRUPADANAM** a student of **B.A (HISTORY,SPECIAL ENGLISH ,POLITICAL SCIENCE)** Program, Reg. No. : **120130801086** of the Department of English , **Mrs AVN COLLEGE VISAKHAPATNAM**, do hereby declare that I have completed the mandatory internship from **01.04.2023 to 14.07.2023(540 Hours)** in **IICTE Private Limited**, Visakhapatnam, under the Faculty Guideship of **Mrs.B LAVANYA**, Department of **English**, **Mrs AVN COLLEGE**, Visakhapatnam.

*P.Krupadanam*  
(Signature and Date)

Estd: 1860

## Official Certification

This is to certify that *PANGI KRUPADANAM* Reg. No. **120130801086** has

completed his/her Internship in *IICTE Private Limited, Visakhapatnam* on

**SYSTEM ADMINISTRATION** under my supervision as a part of partial fulfilment of


the requirement for the Degree of *B.A (HISTORY,SPECIAL*

*ENGLISH,POLITICAL SCIENCE)* in the Department of *Chemistry, Mrs AVN*

*COLLEGE, Visakhapatnam.*

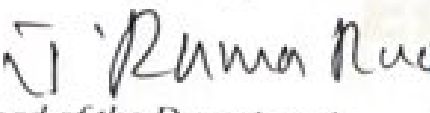
This is accepted for evaluation.

  
(Signatory with Date and Seal)



### Endorsements

Faculty Guide 

  
Head of the Department  
Political Science  
Mrs. A.V.N. College  
Visakhapatnam

  
Principal  
Mrs. A.V.N. COLLEGE  
VISAKHAPATNAM

## Certificate from Intern Organization

This is to certify that *PANGI KRUPADANAM* Reg. No. *120130801086* of *Mrs AVN COLLEGE, Visakhapatnam*, underwent internship in *IICTE Private Limited, Visakhapatnam* from *01.04.2023 to 14.07.2023 (540 HOURS)*.

The overall performance of the intern during his/her internship is found to be Satisfactory.

  
*Authorized Signatory with Date and Seal*



*Estd: 1860*

## Acknowledgements

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

Also, I am very grateful to the head of the Department of *English*, and the other faculty members of the *English* 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 *HICTE 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.

*P. Kupadamanam*  
Signature of the student

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## CHAPTER 1: EXECUTIVE SUMMARY

### Database Integration

I sought to acquire knowledge and practical experience to integrating administration application with data bases. Through database design, query optimization and utilizing administration's database APIs I successfully integrated application with different database system.

### 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 and identify. This experience sharpened my trouble shooting abilities.

### Team Collaborating

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



## 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.

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

**Introduction:** The evolution of software development is a continuous process, driven by the need for more efficient, reliable, and secure systems. This document explores the key trends and challenges shaping the future of software development.

- Cloud-native architectures and microservices
- DevOps and continuous integration/continuous deployment (CI/CD)
- Artificial intelligence (AI) and machine learning (ML) integration
- Security as a priority, including zero-trust models and threat intelligence
- Edge computing and IoT integration
- Sustainability and green computing

## 1. Cloud-Native Architectures

Cloud-native architectures, built on containers and microservices, offer scalability, flexibility, and resilience. They enable organizations to deploy and manage applications more efficiently, reducing time-to-market and operational costs. The adoption of cloud-native architectures is accelerating, driven by the need for agility and the ability to scale on-demand.

The cloud-native paradigm is shifting the focus from monolithic applications to modular, distributed systems. This approach allows for faster development cycles, improved resource utilization, and enhanced security. Organizations are increasingly adopting cloud-native architectures to meet the demands of modern digital business.

Key benefits of cloud-native architectures include: scalability, flexibility, resilience, and cost efficiency. These architectures enable organizations to respond quickly to changing market conditions and customer needs. The future of software development is cloud-native.

## 2. DevOps

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## 3. Artificial Intelligence

## 4. 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 01-04-23	Computer and its Advantages	Learned about the computer its advantages and the basics	B. An
Day -2 02/04/23	Peripherals	Learned about the device ↳ input output	B. An
Day -3 03/4/23	CPU and memory	Learned about the CPU, ALU, CU	B. An
Day -4 05/04/2023	Brief description about Rom	Learned about Rom Read only memory its uses	B. An
Day -5 06/04/2023	Brief description about Ram	Random Access memory advantage 2 describe	B. An
Day -6 7/4/23	Ram slots, types, & speed capacity	Slots → S1MM 2. DIMM 3. R1MM	B. An

**WEEKLY REPORT**  
WEEK - 1. (From Dt. 01/04/23 to Dt. 07/04/2023.)

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
- Core and Threads B. modern CPUs are typically multicore, which means enhancing performance
- Clock Speed B. CPU performance is often measured by its speed
- Cache B. CPUs have built-in cache memory that stores frequently accessed data to reduce the time it
- Instruction set Architecture
- Thermal Design power
- Overclocking
- 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 FDD, HDD, CDD	HDD. Primary & Extended 1. IDE/ PATA 2. SATA 3. SDD	B. [Signature]
Day -2 10/04/2023	Explanation of mother board parts	Panel. 1. Back Eg: Mouse 2. Front & Pondine.	B. [Signature]
Day -3 11/04/2023	1. Serial communication Communication 2. Parallel communication	→ One flow another → A bunch of data	B. [Signature]
Day -4 12/04/2023	Hard disk and its Partitions	Hard disk primary Secondary Storage	B. [Signature]
Day -5 13/04/2023	Student doubt clarification class	Attended	B. [Signature]
Day -6 14/04/23	Lab	Lab	B. [Signature]



**WEEKLY REPORT**  
WEEK - 2. (From Dt. ~~08/04/2023~~ to Dt. 14/04/2023 )

Objective of the Activity Done: Communication

**Detailed Report:**

Network Communication: Computer can communicate with each other over network, such as area networks (LAN).

→ Protocols: Communication between computer offer specific protocols, which are a set of rules and formats

→ Data Transmission = Data can be transmitted between computer in various formats, such as text, images, audio, video, or binary data

→ Sockets and ports = In network communication sockets and ports are used to establish connection between computer

→ 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 question on Topic	Attended	B. R.
Day - 2 17/04/23	Explanation of operating System	The group of program which are integalos	B. R.
Day -3 18/04/2023	Types of operating System	Types of OS 1. Text mode	B. R.
Day -4 19/04/2023	Description about inside Parts of the CPU	→ Mother Board 2. Ram 3. Memory	B. R.
Day -5 20/04/2023	Architecture about CPU 1. ALU 2. CU 3. Memory	Learn about Control & Arithmetic in a System	B. R.
Day -6 21/04/23	Lab	Lab.	B. R.

WEEKLY REPORT  
WEEK - 3 (From Dr. [unclear] to Dr. [unclear])

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 the logical comparisons.
- Registers: Registers are high-speed storage unit located within the CPU.

Program Counter, Instruction Register, Accumulator

- Memory management unit
- Caches - CPUs have multiple levels of cache memory and main memory (RAM)
- Instruction pipeline
- Bus interface unit - CPU and CPU for data transfer
- Instruction set Architecture
- Clock and control signal

WEEKLY REPORT  
WEEK - 4. (From Dt. ~~23/02/23~~ to Dt. ~~29/02/23~~ )

Objective of the Activity Done: MS Office

Detailed Report:

Collection of software programs that are widely used in various professional and personal settings

- MS Word: A word processing application used for creating and editing documents, spell-checking (Used for) tables.
- MS Excel: A spreadsheets program used for organizing, analyzing and manipulating numerical data.
- MS Powerpoint: A presentation software used for creating slideshows, delivering presentations.
- MS Outlook: An email and personal information management, contacts, tasks.
- MS Access: Database management.
- MS One note: Used to create, organize, share notes.