

Wardha Road, Nagpur-441 108 NAAC Accredited

#### Department of Computer Science & Engineering

#### Session 2018-19

Date:06/05/2019

#### **Application for Internship Training**

To

The HoD

Computer Science & Engineering Department,

TGPCET, Nagpur

Subject: Application for the issue the permission letter for Internship Training

Company Name: ETE Servives Pvt. Ltd., Nagpur

Applicant Name: Aditya Tarale, Akash Kawale

Respected Madam,

We the students of VII Semester Computer Science & Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering & Technology Nagpur, request you to allow us to do internship. The duration of training is for One month.

So kindly permit us have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop our professional level with effectiveness.

Thanking You.

Your's faithfully,

1. Aditya Tarale [VII Sem CSE]

2. Akash Kawale [VII Sem CSE]



Wardha Road, Nagpur-441 108 NAAC Accredited

#### Department of Computer Science & Engineering

#### Session 2018-19

Ref: TGPCET/CSE/2018-19/116

Date: 08/05/2019

To, The Manager, ETE Servives Pvt.Ltd. Nagpur.

**Subject:-** Internship Training for students of B.E. VII SEMESTER of Computer Science and Engineering Department in your esteemed organization.

Respected Sir/Madam,

Greetings from Tulsiramji Gaikwad-Patil College of Engineering and Technology, Mohagaon, Wardha Road, Nagpur.

We are conducting four years fulltime Engineering degree in Computer Science and Engineering course affiliated to R.T.M. Nagpur University, recognized by Maharashtra State Government and approved by AICTE, New Delhi.

Some of our students of B.E.(CSE) VII Semester are willing to take internship training in software technology practices in your esteem organization. After completion of training students has to submit their work as a Internship report to the Head of Department.

The following students of our college in B.E. VII Sem(CSE) had approached you for their Internship Training in your organization:-

Sr. No.	Name of Students	
1	Aditya Tarale	
2	Akash Kawale	

I assure you that the information collected by the students will be exclusively used for academic pursuits only. You are requested to co-operate and needful for giving the opportunity to work with your organization.

With Regards

Prof.Roshani Talmale HoD (CSE) T.G.P.C.E.T, Nagpur

Head of Dept. (Computer Science & Engg )
Tulstramji Gaikwad-Patil College of
Engineering and Technology, Nagpur



## ETE Services Pvt. Ltd., Nagpur

Electro-Tech Engineer Services
CIN:- U74999MH2018PTC310643

Ref No. ETES/gen/18-19/07

Date: 13/05/2019

To,

The Head of Department,

Computer Science & Engineering Department

TGPCET, Nagpur

Subject: Regarding joining of student of your college for "Internship Programme".

Respected Sir/Madam,

We are pleased to inform you that the Mr. Aditya Tarale of BE final year students from Computer Science & Engineering department has been selected as an Software Development trainee in our company.

Duration of internship training is for 1 month from 15<sup>th</sup> May 2019 to 15<sup>th</sup> June 2019.

Batch :- JAVA19

Reg.No.:- JAVA1906

Program Co-Ordinator with

@Copyright@ETEServicesPvt.Ltd.

ETES E

Chairman

Wab.: www.etesgroup.ln

Training Period 15 May To 15 June

Director

Mail: electrotechers comail com



## ETE Services Pvt. Ltd., Nagpur

Electro-Tech Engineer Services
CIN:- U74999MH2018PTC310643

Ref No. ETES/gen/18-19/08

Date: 13/05/2019

To,

The Head of Department,

Computer Science & Engineering Department

TGPCET, Nagpur

Subject: Regarding joining of student of your college for "Internship Programme".

Respected Sir/Madam,

We are pleased to inform you that the Mr. Akash Kawale of BE final year students from Computer Science & Engineering department has been selected as an Software Development trainee in our company.

Duration of internship training is for 1 month from 15<sup>th</sup> May 2019 to 15<sup>th</sup> June 2019.

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#### **NAAC** Accredited

## TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology Mohgaon, Wardha Road, Nagpur –441 108

(Approved by AICTE, Recognised by Govt. of Maharashtra, Affiliated to RTM Nagpur University, Nagpur)

An IAO & ISO 9001:2008 Certified Institution

## "Industrial Training Report on JAVA"

This Industrial Case Study report is submitted
to Rashtrasant Tukdoji Maharaj Nagpur
University in partial fulfillment of the
requirement
for the award of the degree

of

**Bachelor of Engineering in Computer Science & Engineering** 

Ву

Mr.Aditya Mukesh Tarale



COMPUTER SCIENCE & ENGINEERING DEPARTMENT

SESSION 2018-19

### **CERTIFICATE OF APPROVAL**

This is to certify that the Industrial Case Study entitled 'Java training' carried out by Mr.Aditya Mukesh Tarale of the Final year Computer Science & Engineering, during the academic year 2018-2019, in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Computer Science & Engineering offered by the Rashtrasant Tukadoji Maharaj Nagpur University.

Mr. Aatul Palandurkar (Industry Mentor Name)

Prof. Roshani Talmale (HOD of CSE Department)

Date:

20/06/2019

Place: Nagpur

## **CONTENTS**

i

ii

iii

Acknowledgement
Abstract
Abbreviations
CHAPTER 1: INTRODUCTION TO JAVA
CHAPTER 2: THE JAVA PLATFORM
1. Java and Open Source
2.2. Java Virtual
Machine(JVM)
2.3. Java Runtime Environment vs Java
Development Kit CHAPTER 3: WRITE, COMPILE &
RUN A JAVA PROGRAM
3.1.Writing a Java Hello World Program
3.2.Steps to Compile and Run First Java
program CHAPTER 4: OBJECT AND CLASSES
IN JAVA
4.1.Objectin
Java
4.2.Classes in
Java
CHAPTER 5: VARIABLE TYPES IN
JAVA CHAPTER 6: BASIC DATATYPES
OFJAVA
6.1.Primitive

Datatype

Datatype
CHAPTER 7: BASIC OPERATOR IN JAV
7.1Arithmatic
Operator
7.2Relational
Operator
7.3Bitwise
Operator

6.2.Reference

### **ACKNOWLEDGEMENT**

We would like to express my deep sense of gratitude to Mr.Aatul Palandurkar and all engineers for giving me an opportunity to do training at Electro-Tech Engineer Services Pvt.Ltd. We got the good knowledge of trouble shooting of hardware, networking related problems and connecting local area networking. We feel very lucky to undergo training in such organizing. They have shown us right path that we could follow in the future to reach maximum possible heights in my life.Finally, we like to thanks all staff member of Web Analysis Computer for their very good support during my training.

#### **ABSTRACT**

It is quite interesting to know the development of Java technology, which is widely accepted in the area of networked/distributed computing. Java evolved from a project developing language for a programming consumer electronic devices at Sun Microsystems, USA. Internet is the network of networks between different types of computers located at different places to transmit information. Information can reach to any place in the world quickly at a cheaper rate through the Internet. Thus, the Internet has made the world a global village for information exchange. The emerging infrastructure of electronic devices and interconnected computer networks create an environment that presents new challenges to software industries for this emerging computing environment. Java process to be a well – suited programming language. It is found suitable for networked environments involving a great variety of computer and devices.

#### **ABBREVATION**

There are literally thousands of computer Abbreviations out there. Many are concerned with the technical aspects of the computer while other deal with personal communication.

Following are more common ones that you may have but do not know exactly what they mean.

Following are some abbreviation which are used in java:

GPL: General Public

License RAM :Random

Access Memory JDK Java

Development kit JVM

Java Virtual Machine

ANSI :American National Standard

Institute JRE: Java Runtime

**Environment** 

**Java Standard Edition (JSE)** – This version is the basic platform for Java. The course will focus on this edition.

Java Enterprise Edition (JEE) — This edition is mainly for developing and running

distributed multitier architecture Java applications, based largely on modular software components running on an application server. We will not be covering this version in the course.

**Java Micro Edition (JME)** – This edition is primarily for developing programs to run on consumer applicances, such as PDAs and cell phones.

#### Chapter-1 INTRODUCTION TO JAVA

Java programming language was originally developed by Sun Microsystems which was initiated by James Gosling and released in 1995 as core component of Sun Microsystems' Java platform (Java 1.0 [J2SE]).

Java is an object-oriented programming language which evolved from C++. It is also a high

-level programming language. The latest release of the Java Standard Edition is Java SE 8.

With the advancement of Java and its widespread popularity, multiple configurations were built to suit various types of platforms. Java is -

Object Oriented: In Java, everything is an Object. Java can be easily extended since it is based on the Object model.

Platform Independent: Unlike many other programming languages including C and C++, when Java is compiled, it is not compiled into platform specific machine, rather into platform independent byte code. This byte code is distributed over the web and interpreted by the Virtual Machine (JVM) on whichever platform it is being run on.

**Simple:** Java is designed to be easy to learn. If you understand the basic concept of OOP **J** ava, it would be easy to master.

**Secure:** With **J**ava's secure feature it enables to develop virus-free, tamper-free system. Authentication techniques are based on public-key encryption.

**Architecture-neutral:** Java compiler generates an architecture-neutral object file format, which makes the compiled code executable on many processors, with the presence of Java runtime system.

**Portable:** Being architecture-neutral and having no implementation dependent aspects of the specification makes Java portable. Compiler in Java is written in ANSI C with a clean portability boundary, which is a POSIX subset.

**Robust:** Java makes an effort to eliminate error prone situations by emphasizing mainly on compile time error checking and runtime checking.

Multithreaded: With Java's multithreaded feature it is possible to write programs that can perform many tasks simultaneously. This design feature allows the developers to construct interactive applications that can run smoothly.

#### Chapter-2

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#### THE JAVA PLATFORM

One thing that distinguished Java from some other languages is its ability to run the same compiled code across multiple operating systems. In other languages, the source code (code that is written by the programmer), is compiled by a compiler into an executable file. This file is in machine language, and is intended for a single operating system/processor combination, so the programmer would have to re-compile the program seperately for each new operating system/processor combination. Java is different in that it does not compile the code directly into machine language code. Compilation creates bytecode out of the source code. Bytecode generally looks something like this:a7 f4 73 5a 1b 92 7d

When the code is run by the user, it is processed by something called the Java Virtual Machine(JVM). The JVM is essentially an interpreter for the bytecode. It goes through the bytecode and runs it. There are different versions of the JVM that are compatible with each OS and can run the same code. There is virtually no difference for the end-user, but this makes it a lot easier for programmers doing software development.

#### Java and OpenSource:-

In 2006 Sun started to make Java available under the GNU General Public License(GPL). Oracle continues this project called Open JDK.

#### Java Virtual machine:-

The Java virtual machine (JVM) is a software implementation of a computer that executes programs like a real machine.

The Java virtual machine is written specifically for a specific operating system,

e.g. for Linux a special implementation is required as well as for Windows.

 Java programs are compiled by the Java compiler into bytecode. The Java virtual machine interprets this bytecodeand executes the Java program.

## Java Runtime Environment vs Java Development Kit:-

A  $\mathbf{J}$  ava distribution comes typically in two flavors, the  $\mathbf{J}$  ava Runtime Environment( $\mathbf{J}$ RE) and the  $\mathbf{J}$  ava Development Kit( $\mathbf{J}$ DK).

The Java runtime environment (JRE) consists of the JVM and the Java class libraries and contains the necessary functionality to start Java programs. The JDK contains in addition the development tools necessary to create Java programs. The

JDK consists therefore of a Java compiler, the Java virtual machine, and the Java class libraries.

#### Chapter-3

#### WRITE, COMPILE AND RUN A JAVA PROGRAM

When programmers create software programs, they first write the program insource code, which is written in a specific programming language, such as Cor Java. These source code files are saved in a text-based, human-readable format, which can be opened and edited by programmers. However, the source code cannot be run directly by the computer. In order for the code to be recognized by the computer's CPU, it must be converted from source code (a high-level language) into machine code (a low-level language). This process is referred to as "compiling" the code.

#### Writing a Java Hello World Program

Let us look at a simple code that would print the words Hello

World. public class MyFirstJavaProgram

/\* This is my first java program.

\* This will print 'Hello World' as the output

\*/

public static void main(String[]args)

System.out.println("Hello World");// prints Hello World

}}

Fig. First Java program

Save the file as MyFirstJavaProgram.java (note that the extension is .java) under a directory, let's say, C:\Java.Every Java program starts from the main()method. This program simply prints "Hello world" to screen.

## Steps to Compile and Run First Java program

Let's look at how to save the file, compile and run the program. Please follow the steps given below:

1) Open Notepad from Start menu by selecting Programs > Accessories > Notepad and add the code as above.

2) Save the file as FirstProgram.java make sure to select file type as all files while saving the file in our working folder C:\workspace

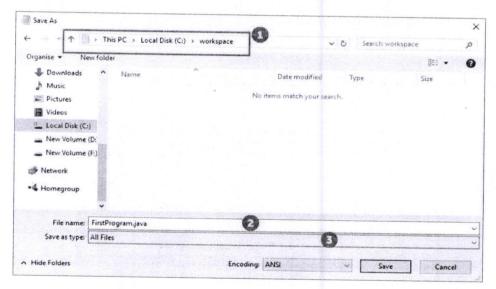


Fig . How to Save the first Program

Open a command prompt window and go o the directory where you saved the class. Assume it's  $C:\$ .

Type ' javac MyFirstJavaProgram.java ' and press enter to compile your code. If there are no errors in your code, the command prompt will take you to the next line (Assumption: The path variable isset).

**Note:** Java is case sensitive Programming language. All code, commands, and file names should is used in consistent casing. **FirstProgram** is not same as **firstprogram**.

#### Chapter-4

#### OBJECT AND CLASS IN JAVA

Java is an Object-Oriented Language. As a language that has the Object-Oriented feature, Java supports the following fundamental concepts:

Polymorphism Inheritance Encapsulation Abstraction Classes Objects Instance

Method

Message Parsing

We will look into the concepts - Classes and Objects

**Object** - Objects have states and behaviors. Example: A dog has states - color, name, breed as well as behaviors – wagging the tail, barking, eating. An object is an instance of a class.

Class - A class can be defined as a template/blueprint that describes the behavior/state that the object of its type support .

#### Objects in Java

**Def.:** An object is an instance of a class. The object is the real element which has data and can perform actions. Each object is created based on the class definition.

Let us now look deep into what are objects. If we consider the real-world, we can find many objects around us, cars, dogs, humans, etc. All these objects have a state and a behavior.

Creating an Object:-

A class provides the blueprints for objects. So basically, an object is created from a class. In **J** ava, the new keyword is used to create new objects.

There are three steps when creating an object from a class:

Declaration: A variable declaration with a variable name with an object type.

Instantiation: The 'new' keyword is used to create the object.

**Initialization:** The 'new' keyword is followed by a call to a constructor. This call initializes the new object.

Following is an example of creating an object:-public class Puppy

```
{ public Puppy(Stringname)
{
/// This constructor has one parameter, name.
System.out.println("Passed Name is :" + name);
} public static void main(String []args)
{ // Following statement would create an object myPuppy Puppy myPuppy = new Puppy( "tommy");
} }
```

If we compile and run the above program, then it will produce the following

result: Passed Name is: tommy

### Classes In Java

**Def.:** Template that describes the data and behavior associated with an instance of that class. In Java source code a class is defined by the class keyword and must start with a capital letter. The body of a class is surrounded by {}.

} void

sleeping(){ }

#### Chapter-5

#### VARIABLE TYPES IN JAVA

A variable provides us with named storage that our programs can manipulate. Each variable in Java has a specific type, which determines the size and layout of the variable's memory; the range of values that can be stored within that memory; and the set of operations that can be applied to the variable.

```
Following is the basic form of a variable
```

```
declaration:- data type variable [ = value][,
```

Here data type is 0 one of Java's datatypes and variable is the name of the variable. To declare more than one variable of the specified type, you can use a comma-separated list.

#### Following are valid examples of variable declaration and initialization in

```
Java: int a, b, c; // Declares three ints, a, b, and c.

int a=10, b=10; // Example of initialization byte B=22; // initializes a byte type variable B. double pi=3.14159; // declares and assigns a value of PI.

chara='a'; // the char variable a is initialized with
```

value 'a' There are three kinds of variables in Java:

Local variables

variable [= value] ...];

- Instance variables
- Class/Static variables

#### Chapter-6

#### BASIC DATATYPE OF JAVA

Variables are nothing but reserved memory locations to store values. This means that when you create a variable you reserve some space in the memory.

Based on the data type of a variable, the operating system allocates memory and decides what can be stored in the reserved memory. Therefore, by assigning different datatypes to variables, you can store integers, decimals, or characters in these variables.

There are two data types available in Java:

- Primitive Datatypes
- Reference/Object Datatypes

## **Primitive Datatypes**

There are eight primitive datatypes supported by Java. Primitive datatypes are predefined by the language and named by a keyword. Let us now look into the eight primitive data types in detail. Byte:

- Byte data type is an 8-bit signed two's complement integer
- Minimum value is -128 (-2^7)
- Maximum value is 127 (inclusive)(2<sup>7</sup>-1)

## Short: Short datatype is a 16-bit signed two's complement integer

- Minimum value is -32,768 (-2^15)
- Maximum value is 32,767 (inclusive) (2<sup>15</sup>-1)
- Short datatype can also be used to save memory as byte data type. A short is 2 times smaller than aninteger
- Default value is 0

#### long:

- Long datatype is a 64-bit signed two's complement integer
- Minimum value is -9,223,372,036,854,775,808 (-2^63)
- Maximum value is 9,223,372,036,854,775,807 (inclusive) (2^63 -1)

#### float:

- Float datatype is a single-precision 32-bit IEEE 754 floating point
- Float is mainly used to save memory in large arrays of floating point numbers
- Default value is 0.0f

#### double:

- double datatype is a double-precision 64-bit IEEE 754 floating point
- This datatype is generally used as the default data type for decimal values, generally the default choice
- Double datatype should never be used for precise values such as currency

#### boolean:

- boolean datatype represents one bit of information
- There are only two possible values: true and false
- This datatype is used for simple flags that track true/false conditions

## **Reference Datatypes**

Reference variables are created using defined constructors of the classes. They are used to access objects. These variables are declared to be of a specific type that cannot be changed. For example, Employee, Puppy, etc.

Class objects and various type of array variables come under reference datatype.

Default value of any reference variable is null.

A reference variable can be used to refer any object of the declared type or any compatible type.

Example: Animal animal = new Animal("giraffe");

## Chapter-7

## BASIC OPERATORS IN JAVA

Java provides a rich set of operators to manipulate variables. We can divide all the Java operators into the following groups:

Arithmetic

Operators Relational

Operators Bitwise

Operators Logical

Operators

Assignment

Operators Misc

Operators

#### The Arithmetic Operators

Arithmetic operators are used in mathematical expressions in the same way that they are used in algebra. The following table lists the arithmetic operators:

Assume integer variable A holds 10 and variable B holds 20, then:

Sr.No.	Operator and Example
1.	+ (Addition)
	Adds values on either side of the operator <b>Example:</b> A + B will give 30
2.	- (Subtraction)
	Subtracts right-hand operand from left-hand operand <b>Example:</b> A - B will give
00 4 , F <sub>10</sub>	-10

3.	* ( Multiplication )
	Multiplies values on either side of the operator <b>Example:</b> A * B will give 200
4.	/ (Division)
	Divides left-hand operand by right-hand operand <b>Example:</b> B / A will give 2
5.	% (Modulus)
	Divides left-hand operand by right-hand operand and returns remainder <b>Example:</b> B % A will give 0
6.	++ (Increment)
<u>-</u>	Increases the value of operand by 1 <b>Example:</b> B++ gives 21

## **The Relational Operators**

There are following relational operators supported by Java language. Assume variable A holds 10 and variable B holds 20, then:

Sr.No.	Operators and Description
1.	== (equal to)
	Checks if the values of two operands are equal or not, if yes then condition becomes true.
2 2	<b>Example:</b> $(A == B)$ is not true.

2.	!= (not equal to)
	Checks if the values of two operands are equal or not, if values are
	not equal then condition becomestrue.
	Example: (A != B) is true.
3.	> (greater than)
	Checks if the value of left operand is greater than the value of right operand, if yes then condition becomes true.
	Example: (A > B) is not true
4.	< (less than)
	Checks if the value of left operand is less than the value of right operand, if yes then condition becomes true.
	<b>Example:</b> (A < B) is true
5.	>= (greater than or equal to)
	Checks if the value of left operand is greater than or equal to the value of right operand, if yes then condition becomes true.
	<b>Example:</b> $(A >= B)$ is not true
6.	<= (less than or equal to)
	Checks if the value of left operand is less than or equal to the value of right operand, if yes then condition becomes true.
<u> </u>	<b>Example:</b> $(A \le B)$ is true.

## The Bitwise Operators

Java defines several bitwise operators, which can be applied to the integer types, long, int, short, char, and byte.

Bitwise operator works on bits and performs bit-by-bit operation. Assume if a = 60 and b = 13; now in binary format they will be as follows:

The following table lists the bitwise operators:

Assume integer variable A holds 60 and variable B holds 13 then:

Sr.No.	Operators and Description
1.	& (bitwise and)
	Binary AND Operator copies a bit to the result if it exists in both
	operands. <b>Example:</b> (A & B) will give 12 which is 0000 1100
2.	(bitwise or)
	Binary OR Operator copies a bit if it exists in either operand.
	<b>Example:</b> (A   B) will give 61 which is 0011 1101
<i>3</i> .	^ (bitwise XOR)
	Binary XOR Operator copies the bit if it is set in one operand but not
	both. <b>Example:</b> (A ^ B) will give 49 which is 0011 0001
4.	~ (bitwise compliment)
	Binary Ones Complement Operator is unary and has the effect of 'flipping' bits.
	<b>Example:</b> (~A) will give -61 which is 1100 0011 in 2's complement
	form due to a signed binary number
5.	<< (left shift)
	Binary Left Shift Operator. The left operands value is moved left by
	the number of bits specified by the right operand. <b>Example:</b> A << 2
	will give 240 which is 1111 0000
6.	>> (right shift)
	Binary Right Shift Operator. The left operands value is moved right by
	the number of bits specified by the right operand. <b>Example:</b> $A >> 2$
	will give 15 which is 1111
<i>7</i> .	>>> (zero fill right shift)
	Shift right zero fill operator. The left operands value is moved right
	by the number of bits specified by the right operand and shifted
	values are filled up with zeros.
	<b>Example:</b> A >>>2 will give 15 which is 0000 1111



## ETES

# ETE Services Pvt. Ltd., Nagpur

Electro-Tech Engineer Services
CIN:- U74999MH2018PTC310643

# Certificate of Internship

Summer - 2019

This is to certify that

## Mr/Ms. ADITYA MUKESH TARALE

has under gone one month of internship at Electro-Tech Engineer Services in IAVA PROGRAMMING. During his/her internship period he/she found disciplined and punctual. He/She were sincere on his /her task, le/She improved his/her practical skills during internship on assgined project.

We wish best of luck with his/her future endeavors.

Batch :- JAVA19 Reg.No.:- JAVA1906 ETES E

15 May To 15 June

**Training Period** 

Program

Program Chairn

Chairman

Director FTES

N'an



## ETE Services Pvt. Ltd., Nagpur

Electro-Tech Engineer Services
CIN:- U74999MH2018PTC310643

# Certificate of Internship

Summer - 2019

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Batch :- JAVA19

Reg.No.:- JAVA1911

Bhor.

Program Co-Ordinator

APANIMONIA FTE Saninge Dut I Id



Chairman

Chairman ETES

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Training Period 15 May To 15 June

Director

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Wardha Road, Nagpur-441 108
NAAC Accredited

#### Department of Information Technology Engineering

#### **Application for Internship Training**

To

The HoD

Department Information Technology, Nagpur

Subject: Application for the issue the permission letter for Internship Training

Company Name: 3T Networks Naspun

Applicant Name: Ms. Priyu Pumbbude

Respected Sir,

I am the students of <u>o6</u> Semester Information Technology Department of Tulsiramji Gaikwad Patil College of Engineering & Technology Nagpur, request you to allow me to do internship. The duration of training is <u>one</u> Months

So kindly permit me as I have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop my professional level with effectiveness.

Thanking You.

HoD (Info. Tech.)



Wardha Road, Nagpur-441 108 NAAC Accredited

#### Department of Information Technology Engineering

#### Application for Internship Training

The HoD

Department Information Technology, Nagpur

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Applicant Name: 14. Provid royle

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#### Department of Information Technology Engineering

#### Application for Internship Training

To

The HoD

Department Information Technology, Nagpur

Subject: Application for the issue the permission letter for Internship Training

Applicant Name: Ansket Katne

Respected Sir,

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## Department of Information Technology Engineering

## Application for Internship Training

To

The HoD

Department Information Technology, Nagpur

Subject: Application for the issue the permission letter for Internship Training

Company Name: IT Network Pyt. Utd. Nagpur.

Applicant Name: Ms. Nayun lethancle

Respected Sir,

I am the students of M Semester Information Technology Department of Tulsiramji Gaikwad Patil College of Engineering & Technology Nagpur, request you to allow me to do internship. The duration of training is one Durch

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#### Department of Information Technology Engineering

#### **Application for Internship Training**

To The HoD Department Information Technology, Nagpur Subject: Application for the issue the permission letter for Internship Training Company Name: IT Network put Itd Nagour Applicant Name: Ms. Snehal Hugge Respected Sir, I am the students of of Semester Information Technology Department of Tulsiramji

Gaikwad Patil College of Engineering & Technology Nagpur, request you to allow me to do internship. The duration of training is one pacoth.

So kindly permit me as I have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop my professional level with effectiveness.

Thanking You.

HoD (Info. Tech.)



Mohgaon, Wardha Road, Nagpur - 441 108 **Tel:** 07103-645410 **Mob:** 09922966173 Approved by AICTE, New Delhi, Govt. of Maharshtra & Affiliated to RTM Nagpur University **E-mail:** principal@tgpcet.com **Website:** www.tgpcet.com An ISO 9001:2008 Certified Institution

GAIKWAD-PATIL GROUP OF INSTITUTIONS

Gayatri Nagar, IT Park Road Nagpur - 440 022 Tel: 0712 664 8252 Fax: 0712 224 0656 E-mail: vidarbhabuss@yahoo.co.in

Ojaswini Complex

Date: 15/05/2019

Ref. No-/SIP/TGPCET/2018-19/205

To, Mr. Dipak Dhote, Operational Manager IT NetworkZ, Nagpur.

**Subject:** Letter regarding Summer Internship Program in your organization.

Respected Sir,

Warm greetings from GAIKWAD-PATIL GROUP OF INSTITUTIONS

**GAIKWAD-PATIL GROUP OF INSTITUTIONS** is one of the most prestigious educational groups in Nagpur. Tulsiramji Gaikwad-Patil College of Engineering & Technology (TGPCET) and Abha Gaikwad-Patil College of Engineering (AGPCE) offers a range of disciplines in Engineering & Technology and Management.

As a professional educational group involved in producing engineers, it is imperative for us that our students are industry relevant and ready and therefore we would like to request you to allow our following Student of 6<sup>th</sup> Semester Information Technology Department, from Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur in your esteemed organization so that it will help us as well as to students to understand what an industry such as yours needs from a fresh engineering graduate. We are hoping to get our students work under your guidance. We will take the responsibility of Students Behavior and assure you that they will not break any regulations of your esteemed company.

- 1. Ms. Mayuri Lokhande
- 2. Mr. Aniket Katre
- 3. Mr. Pratik Khule
- 4. Ms. Priya Rambhade
- 5. Ms. Snehal Hajare

Regards,

Training & Placement officer T.G.P.C.E.T. NAGPUR.

Head, T&P GAIKWAD-PATIL GROUP OF INSTITUTIONS





## **Acceptance Letter for Internship**

### Dear Snehal Hazare,

On behalf of the IT NetworkZ Pvt. Ltd Nagpur, we would like to notify you of this opportunity for an internship. On your acceptance of this offer, you can continue an internship with the company on 25<sup>th</sup> May 2019. You will not get the benefits of regular employees including health insurance, holidays or sick pay, wage leave or participation in the company's plan.

We assure you that the details of your particulars we have collected during your program should be saved in our covert privately. We appreciate your interest in our company.

Project Head IT-NetworkZ

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Nagpur.

TO ST STEMS PARTY. LEG. # 200 LEG

HR
IT-NetworkZ
(Authorized Signatory)

CORPORATE OFFICE

1414, Hunters Glen Dr. Plainsboro New Jersey - 08536, USA
Tel: +1-443-878-2147, Fax: +1-443-548-0904
GLOBAL DEVELOPMENT CENTER

#21, Bonairo, Denise Avenue, Morningsite, Sandton, Johannesburg - 2169 SA, Tel: +27-730-606939 HEAD OFFICE

#P-5/A,102/201, Akanksha, RPTS Road, Laxmi Nagar, Nagpur - 440022, INDIA Tel: +91-712-6464622 , Fax: +91-712- 2248422

BRANCH OFFICE

Ground Floor, Anand Palaco - 11, Opp. Vasant Dada Polytechnic, Nandanvan, Nagpur - 09, Tel : 712 - 2712012, Cell : 92256 70888



## IT INTERNSHIP - CERTIFICATE OF COMPLETION

#### To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Mr. Aniket Katre [Intern], student of VIIth Sem. (Final Year), Information Technology Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd.. Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

His Internship duration was 65 Hrs and conducted from 25th May, 2019 to 25th June, 2019. During this Internship, his performance was found good.

We wish him good luck for his future endeavors.

Project Nead IT-NetworkZ

(Appered issued IT-NetworkZ

Nagpur.

(Authorized Supplery)

CORPORATE OFFICE

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BRANCH OFFICE

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## To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Ms. Mayuri A. Lokhande [Intern], student of VII<sup>th</sup> Sem. (Final Year), Information Technology Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25<sup>th</sup> May, 2019 to 25<sup>th</sup> June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

Project Head

IT-NetworkZ

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Nagpur.

HR IT Notes

IT-NetworkZ (Authorized Shifting) IT-NetworkZ

Nagpur.

CORPORATE OFFICE

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BRANCH OFFICE

Ground Flaor, Anand Palace - 11, Opp. Vosunt Deda Polytechnic, Nondomen, Naggur - 09, Tel. 712 - 2712012, Cell. 92256 70888.



#### To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Mr. Pratik Khule [Intern], student of VII<sup>th</sup> Sem. (Final Year), Information Technology Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25<sup>th</sup> May, 2019 to 25<sup>th</sup> June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

Project Head

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Nagpur.

HR
IT-NetworkZ
(Authorized Signal

Nagpur.

CORPORATE OFFICE

143.4. Hunters Glee Dr. Florenboro New Jersey - 08536, USA Tel: +1.443-878-2147, Fpx: +1.443-548-0904

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Tel: +27-730-606939

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BRANCH OFFICE

Ground Flaot, Anand Palace - 11, Opp. Vasunt Deda Polytechnic, Nandamenn, Nagpur - 09, Tel. 712 - 2712012, Cell. 92258 70888.



#### To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Ms. Priya Rambhade [Intern], student of VIIth Sem. (Final Year), Information Technology Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25th May, 2019 to 25th June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

IT-NetworkZ (Authorized Si

-NetworkZ

IT-NetworkZ (Authorized Signatory) T-NetworkZ Nagpur.

CORPORATE OFFICE

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BRANCH OFFICE

Ground Floor, Anand Palson - 11, Opp Vasont Doda Polytechnic, Nandomm, Napper - 09, Tel 712 - 271 2012, Cell 92236 70888



reb : www.it-networkz.com e-mail : contact@it-networkz.com

# IT INTERNSHIP - CERTIFICATE OF COMPLETION

# To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Ms. Shilpa C. Godi [Intern], student of VIIth Sem. (Final Year), Information Technology Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25th May, 2019 to 25th June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

Project Head

(Authorized Signatory) IT-NetworkZ

IT-NetworkZ (Authorized Shminy) IT-NetworkZ Nagpur.

CORPORATE OFFICE

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# To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Ms. Snehal R. Hajare [Intern], student of VIII Sem. (Final Year), Information Technology., Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25th May, 2019 to 25th June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors:

Project Head IT-NetworkZ THE STATE STREET

T-Network? Magpur.

IT-NetworkZ (Authorized Signatory)

COMPONATE DIVICE

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HEAD OFFICE

#8.5.4.102/201 Aventson, APIS Basel Laurel Nosgan Nosgan - 440022, INDIA Tel: +91-712-6464622 - Pes: +91-712-2246422 BRANCH OFFICE

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### To Whomsoever It May Concern

Date: 6/07/2019 Place: Nagpur

This is to certify and confirm that Ms. Snehal A. Mohitkar [Intern], student of VIIth Sem. (Final Year), Information Technology., Dept., Tulsiramji Gaikwad Patil College of Engineering And Technology, Nagpur, has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur, (Kavin's group of company) and have completed it in accordance with the approved Modules and specifications, under the guidance and supervision.

Her Internship duration was 65 Hrs and conducted from 25th May, 2019 to 25th June, 2019. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

Project Head IT NetworkZ

IT-NetworkZ (Authorized Signatory)

CORPORATE OFFICE

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# TULSIRAMJI GAIKWAD PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF INFORMATION TECHNOLOGY



IT-NETWORKZ INFOSYSTEMS PVT.LTD.

KAVIN INDIA PVT.LTD.

(GROUP OF COMPANY)

SESSION 2018-19

INTERNSHIP REPORT

Guide by:-

Mr. Rajiv Verma.

it-Network? Nagpur. Submitted by:-

Snehal R. Hajare.

Rojects

Date: -26/06/19

#### **DECLARATION**

During my internship in IT-NetworkZ Infosystems Pvt. Ltd. And preparation of this report I realized that it is three joint venture guidance, assistance and co-operation. So it would've not been completed without and declaration and help receives. It is a matter of great privileges to express my deep sense of gratitude towards my guide Mr. Rajiv Verma, the project head at IT-NetworkZ Infosystesms Pvt. Ltd., Nagpur. For having this guidance I am extremely thankful to him for constant motivation and inspiration extended throughout during internship work which has made me possible to complete the work in scheduled time. My sincere thanks to all faculties.

Submitted By:-

Snehal R. Hajare.

Dale: - 26/06/2019

#### ACKNOWLESGEMENT

I would like to thank my faculty for giving me opportunity to write about this project, awareness about internship, also the technical knowledge and further thinks. I am highly indebted to IT-NetworkZ Infosystems Pvt. Ltd. for their guidance and also constant supervision as well as for providing necessary regarding the project and also for their support in completing the project. Would like to express my gratitude towards my parents and member of IT-NetworkZ Infosystems Pvt.Ltd. For their kind co-operation and also encouragement which help me in completion of this project. Would like to express my gratitude and thanks to industry persons for giving me such attention and time, my thanks and appreciations also go to people who have willingly helps me out with their abilities. I've enjoyed during my internship in multimodule in IT-NetworkZ Infosystems Pvt. Ltd. And also learnt about the software I used and also learnt about languages by which I made project. I would also like to thank my team members for motivating me and appreciating my work. Doing I month internship in company like IT-NetworkZ Infosystems Pvt. Ltd. Is a great opportunity for me. I thanks all members of IT-NetworkZ Infosystems Pvt. Ltd. For valuable support.

Guides By

Mr. Rajiv Verma.

Project Webd IT-Network? Nagpur.



Submitted By:-Snehal R. Hajare.

Pate: - 26/06/19

# INDEX

Sr. No.	Topic Name	Page No.
1.	Company Information	5
2.	Computer Networking	7
3.	OOP'S Concepts	12
4.	Arduino	20
5.	Computer Hardware	25
6.	Software Testing	30
7.	Conclusion	35
8.	Reference	36

#### 1. Company Information



#### Company Details:- IT-NetworkZ Infosystems Pvt. Ltd.

M/S IT-Network Infosystems Pvt.Ltd. is an IT Company and part of information technology industry, it was inaugurated on 24<sup>th</sup> may 2007, IT-NetworkZ Infosystems Pvt. Ltd. Started its operation with information technology services including IT information company established Software Development wing as well as on 26<sup>th</sup> june 2015, Company was incorporated management and professional It Training and online Exam faculty, later on Dec 2009,as "IT-NetworkZ Infosystems Pvt. Ltd. Company has its presence in India in south Africa, its head office is situated in Nagpur(Laxmi Nagar) and branch offices are at Nandanvan - Nagpur, Cape Town and Johnesbug – south Africa Company is running its all operations independently as per their Geographic area India operation are handle by a team of 20-25 professionals.

#### Services Category: IT Training and International Assessment:

IT-NetwoekZ Infosystems Pvt.Ltd. has very strong bonding with educational institutions and hence established around 28th MoU's with esteemed institution which comes under MSBTE,UGC and AICTE, these MoU's are done for student and faculty development. Technical team member of IT-NetworkZ Infosystem Pvt.Ltd. Have fine experience and keen interest in teaching attend. Company has trained around 4000+ candidates under its banner and usually 7200+ student attend It-NetworkZ Infosystem Pvt. Ltd. Tech sessions every year. IT-NetworkZ Infosystem Pvt.Ltd. is an ex authorized prometric and person VUE test center for International IT Exam. Currently it is authorized by "Kryterion Testing Network" for reputed Sales Force and other IT international exam, IOT gaint "persistent System Ltd" had taken an initiative with company with to start this faculty for need candidates.

Service Category: Live Project and Internship:

Live Project and internship turns student into professionals. Being a part of IT Industry IT-

NetworkZ Management stared with this initiative to product more quality and Industry ready

professionals. Company is providing 6 Weeks, 6 Months and 1 Year Internship/Live project

for Final Year and Graduate Candidates.

Service Category: Software Development:

IT-NetworkZ has a term of enthusiastic and creativity developers and designers. Company is

providing stand alone Web applications and mobile app development to various clients. Till

now company has completed various projects and working for some of the esteemed clients

in Hospital, Education and Government sector. As per the market demand and own strength

company has planned services based solution in Matrimony, Employment, Education Listing,

Electronics Test System & Venue Searching, etc. Company is planning to develop few

solutions for health care industry as well as professionals. Company is providing 6 Weeks, ^

Months & 1 Months Internship/ Live for Final Year and Graduate Candidates.

Awards:

Awarded in TOP TEN Prometric Test Centers in the World of 5600+ Centers for the Year

2013 & 2014.

Microsoft Network Partner

700+ Tech Session Delivered to 20,000+ Students

Products: based of

Microsoft Dot Net

Virtualization

Clout

CCNA

Linux

Hardware

Security

#### 1. Computer network

#### Computer Networking:-

It's a type of performance testing that simulates real-world load on any software, application, or website. It examines how the system behaves during normal and high loads and determines if a system, piece of software, or computing device can handle high loads given a high demand of end users. This tool is typically applied when a software development project nears completion.

Uses of Computer Networks. We can also say that computer network is an interconnection of various computers to share software, hardware and data through a communication medium between them. The computers connected in a network share files, folders, applications and resources like scanner, web-cams, printers etc

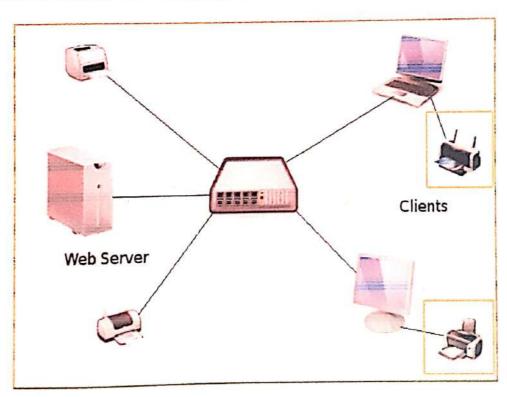


Fig1 :- Computer Network.

#### Computer Network Types

- o LAN (Local Area Network)
- PAN (Personal Area Network)
- MAN (Metropolitan Area Network)
- WAN (Wide Area Network)
- CAN(Campus Area Network)

#### Types of Network Topologies:-

- Star topology
- Bus topology
- o Ring topology
- Mesh topology
- Hybrid topology
- Hierarchical topology.

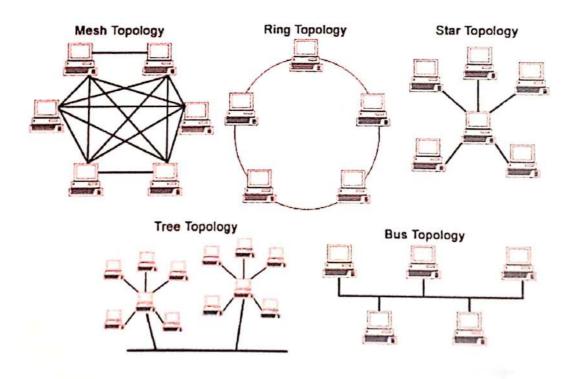


Fig2: - Topologies.

Network device list:

- o Hub
- Switch
- Router
- o Bridge
- Gateway
- o Modem
- o Repeater
- Access Point
- DHCP Server:-

A DHCP Server is a network server that automatically provides and assigns IP addresses, default gateways and other network parameters to client devices. It relies on the standard protocol known as Dynamic Host Configuration Protocol or DHCP to respond to board cast queries of clients.

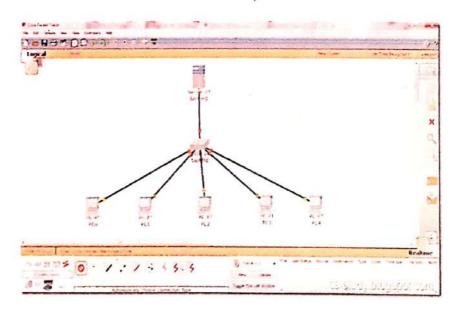


Fig3: - DHCP Server.

DNS Server:-

DNS Stand for Domain Name Server. DNS server configuration in Packet Tracer. A Domain Name Service (DNS) server resolves host names into IP addresses. Although we can access a network host using its IP address, DNS makes it easier by allowing us use domain names which are easier to remember.

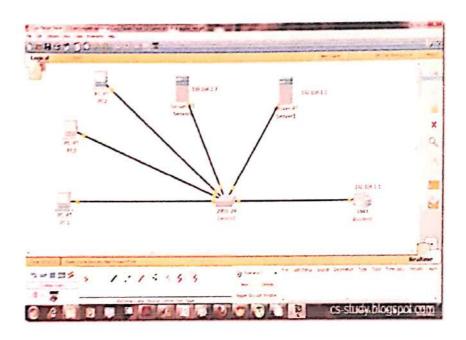


Fig4: - DNS Server.

#### E-mail Server:-

Despite the rise in text messaging, instant messaging, social networking, and other forms of communication, email continues to be the predominant business collaboration tool. The unsecured nature of email, however, has caused the inadvertent and malicious exposure of sensitive information.



Fig5 :- E-mail Server

#### VLAN Security:-

The proliferation of network security certifications indicates that the importance of network security is growing. Every configuration, monitoring, maintenance, and troubleshooting procedure in a switched network must include an analysis of the security implications. VLANs and VLAN technologies play an integral role in the design and implementation of switched networks.

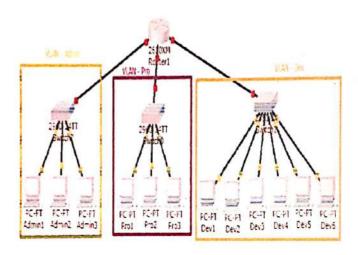


Fig6: - VLAN Security.

## 7. Conclusion

During this internship I gained a basic knowledge of computer Hardware, Software, Networking, Software testing, Arduino, OOP's concept. This knowledge will be very helpful for me in future. A computer network is two or more computers connected together using a telecommunication system for the purpose of communicating and sharing resources. Thus internship experience will help me in my career in IT industry.



# Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441 108 **NAAC Accredited** 

# Department of Information Technology Engineering

#### Application for Internship Training

To The HoD

Department Information Technology, Nagpur

Subject: Application for the issue the permission letter for Internship Training

Company Name: libdex Sclution prot. Ud. Nagpur.

Applicant Name: Pyjesh makde

Respected Sir,

I am the students of Semester Information Technology Department of Tulsiramji Gaikwad Patil College of Engineering & Technology Nagpur, request you to allow me to do internship. The duration of training is 2 Month

So kindly permit me as I have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop my professional level with effectiveness.

Thanking You.

HoD (Info. Tech.)

Head of Dept. (Information Technology) Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur.



# Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441 108 NAAC Accredited

# Department of Information Technology Engineering

#### **Application for Internship Training**

То
The HoD
Department Information Technology, Nagpur
Subject: Application for the issue the permission letter for Internship Training
Company Name: Libder Stolution Nagpyn
Company Manner CIBA M2 SCOTUTION MAS PHA
Applicant Name: Ms. Mansher Hadke
Respected Sir,

I am the students of 6m Semester Information Technology Department of Tulsiramji Gaikwad Patil College of Engineering & Technology Nagpur, request you to allow me to do internship. The duration of training is 2m Morth.

So kindly permit me as I have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop my professional level with effectiveness.

Thanking You.

HoD (Info. Tech.)

Head of Dept. (information Technology)
Tulsiramji Gaikwad-Patil College of
Engineering & Technology, Nagpur.



Ojaswini Complex Gayatri Nagar, IT Park Road Nagpur - 440 022 Tel: 0712 664 8252 Fax: 0712 224 0656

GAIKWAD-PATII GROUP OF INSTITUTIONS

E-mail: vidarbhabuss@yahoo.co.in

Date: 02/05/2019

Approved by AICTE, New Delhi, Govt, of Maharshtra & Affiliated to RTM Nagpur University E-mail: principal@tgpcet.com Website: www.tgpcet.com An ISO 9001:2008 Certified Institution

Ref. No-/SIP/TGPCET/2018-19/198

To, HR Manager, Libdex Solutions Pvt. Ltd. Nagpur.

**Subject:** Letter regarding Summer Internship Program in your organization.

Respected Sir,

Warm greetings from GAIKWAD-PATIL GROUP OF INSTITUTIONS

GAIKWAD-PATIL GROUP OF INSTITUTIONS is one of the most prestigious educational groups in Nagpur. Tulsiramji Gaikwad-Patil College of Engineering & Technology (TGPCET) and Abha Gaikwad-Patil College of Engineering (AGPCE) offers a range of disciplines in Engineering & Technology and Management.

As a professional educational group involved in producing engineers, it is imperative for us that our students are industry relevant and ready and therefore we would like to request you to allow our following Student of 6th Semester Information Technology, from Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur in your esteemed organization so that it will help us as well as to students to understand what an industry such as yours needs from a fresh engineering graduate. We are hoping to get our students work under your guidance. We will take the responsibility of Students Behavior and assure you that they will not break any regulations of your esteemed company.

1. Mr. Rajesh Makde

2. Ms. Manish Hadke

Regards,

ng & Placement officer G.P.C.E.T. NAGPUR.

Head, T&P **GAIKWAD-PATIL GROUP OF INSTITUTIONS** 



......

Date: 10/05/2019

Ref :Lib/Inter/272/2019

Dear Ms. Manish Hadke

Libdex Solution Private Limited is pleased to offer you an educational internship opportunity as a PHP WEB DEVELOPMENT intern. You will report Mr. Shantanu Kulkarni.

You will receiving academic credit for this position .you will not be paid. your assignment will be concluded on 14th July 2019.



Sincerely,

Mr. Shantanu Kulkarni Co-Founder & Director. (Libdex Solution Pvt. Ltd) ......

Date: 10/05/2019

Ref :Lib/Inter/272/2019

Dear Mr. Rajesh Makde,

Libdex Solution Private Limited is pleased to offer you an educational internship opportunity as a PHP WEB DEVELOPMENT intern. You will report Mr. Shantanu Kulkarni.

You will receiving academic credit for this position .you will not be paid. your assignment will be concluded on 14th July 2019.



Sincerely,

Mr. Shantanu Kulkarni Co-Founder & Director. (Libdex Solution Pvt. Ltd)



#### CIN:U74999MH2016PTC287989

(INCORPORATED UNDER THE COMPANIES ACT 1956/2013)
Website:- http://www.libdexsolutions.in Email:- care@libdexsolutions.in

# **CERTIFICATE OF INTERNSHIP**

This is to certify that

# MR. RAJESH YADORAO MAKDE

Has successfully completed the two months internship program on PHP WEB DEVELOPMENT

From 14th May 2019 to 14th July 2019

WE APPRICATE YOUR HARDWORK

Shantanu Kulkarni



#### CIN:U74999MH2016PTC287989

(INCORPORATED UNDER THE COMPANIES ACT 1956/2013)
Website:- http://www.libdexsolutions.in

# **CERTIFICATE OF INTERNSHIP**

This is to certify that

## MS. MANISHA HADKE

14th July 2019

Has successfully completed the two months internship program on PHP WEB DEVELOPMENT

Comment of the Commen

14th May 2019

WE APPRICATE YOUR HARDWORK

Shantanu Kulkarni

## INTERNSHIP REPORT

ON

# PHP WEB DEVELOPMENT

BY

Rajesh YadoraoMakde

ID: TBE17296

Name of the organization
LIBDEX SOLUTION PRIVATE LIMITED

#### DEPARTMENT OF INFORMATION TECHNOLOGY

Session

2018-19

**Date of Submission:** 

20th July 2019

Name of the College



**NAAC** Accredited

TULSIRAMJI GAIKWAD-PATIL

College of Engineering & Technology

Mohgaon, Wardha Road, Nagpur - 441 108 (Approved by AICTE, Recognised by Govt. of Maharashtra, Affiliated to RTM Nagpur

University, Nagpur)
An IAO & ISO 9001:2008 Certified Institution

## DECLARATION

#### I certify that,

- a. The work contained in this Industrial Case Study has been done by me under the guidance of my supervisors.
- b. The work has not been submitted to any other Institute for any degree or diploma.
- c. I have followed the guidelines provided by the Institute in preparing the Industrial Case Study report.
- d. I have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- e. Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the report and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary.



# **Executive Summary**

This is the internship report based on the two-month internship program that I had successfully completed in Libdex Solution Private Limited from 14th May 2019 to 14th July 2019 as a requirement of my BE program on Department of Information Technology, RTMNU University.

As being completely new to practical, corporate world setting, every hour spent in the Libdex Solution Private Limited gave me some amount of experience all the time all of which cannot be explained in words. But nevertheless, they were all useful for my career.

In desktop base website creating system is easy to understand. Since I accept Internship it seems to me, I am beginner and primary level to learn web development, so it is easy and interested to learn and create.



# M LIBDEX SOLUTIONS PRIVATE LIMITED

#### CIN:U74999MH2016PTC287989

(INCORPORATED UNDER THE COMPANIES ACT 1956/2013) Website:- http://www.libdexsolutions.in Email:- care@libdexsolutions.in

# CERTIFICATE OF INTERNSHIP

This is to certify that

## MR. RAJESH YADORAO MAKDE

Has successfully completed the two months internship program on PHP WEB DEVELOPMENT

From

14th May 2019

14th July 2019

WE APPRICE HARDWORK

# Overview of the Organization

#### Brief history:

- a. Libdex Solutions Private Limited is a Private incorporated on 28 November 2016. It is classified as Non-govt company and is registered at Registrar of Companies, Mumbai. Its authorized share capital is Rs. 100,000 and its paid-up capital is Rs. 100,000.
- b. Libdex Solutions Private Limited's Annual General Meeting (AGM) was last held on N/A and as per records from Ministry of Corporate Affairs (MCA), its balance sheet was last filed on N/A.
- c. Directors of Libdex Solutions Private Limited are Atul Prakash Turkar, Harichand Shamrao Barve.

#### Introduction of the organization:

- a. Libdex Solutions Private Limited is a Private incorporated on 28 November 2016. It is classified as Non-govt company and is registered at Registrar of Companies, Mumbai.
- b. Libdex Solutions Private Limited's Corporate Identification Number is (CIN) U74999MH2016PTC287989 and its registration number is 287989.Its Email address is shantukulkarni11@gmail.com and its registered address is Murri Gondia Gondiya MH 441601 IN.

#### Policy of the organization:

- We Store Your data (full name, email, mobile, message, cookies).
- All credit/debit cards' details and personally identifiable information will NOT be stored, sold, shared, rented or leased to any third parties.
- c. Merchant will not pass any debit/credit card details to third parties.
- d. Merchant takes appropriate steps to ensure data privacy and security including through various hardware and software methodologies. However, (libdexsolutions.in) cannot guarantee the security of any information that is disclosed online.
- e. The merchant is not responsible for the privacy policies of websites to which it links. If you provide any information to such third parties different rules regarding the collection and use of your personal information may apply. You should contact these entities directly if you have any questions about their use of the information that they collect.
- f. The Website Policies and Terms & Conditions may be changed or updated occasionally to meet the requirements and standards. Therefore, the Customers' are encouraged to frequently visit these sections to be updated about the changes on the website. Modifications will be effective on the day they are posted.

# **Organizational Structure**

- Organizational Hierarchy chart: 2 rooms 12\*15, new office construction is working.
- Number of employees: 10.
- Main offices: Murri Gondia Gondiya MH 441601.
- > Introduction of all the departments:
  - 1) Web Development.
  - 2) Mobile Application Development.
  - 3) Web Security Services.
  - 4) SEO Solution.
  - 5) Web Hosting.
  - Software Development.
  - 7) Android Application Development.

# Plan of your internship program

- > A brief introduction of the branch/ area office of the organization where you did your internship:
  - Libdex Solutions Private Limited is a Private incorporated on 28 November 2016. It is classified as Non-govt company and is registered at Registrar of Companies, Mumbai.
  - 2) Libdex Solutions Private Limited's Corporate Identification Number is (CIN) U74999MH2016PTC287989 and its registration number is 287989. Its Email address is shantukulkarni11@gmail.com and its registered address is Murri Gondia Gondiya MH 441601 IN.
  - The Libdex Solutions Private Limited is very nice organization I seen ever, this organization is located in Laxmi Nagar, Gondia Maharashtra.
- Starting and ending dates of your internship: 14th May 2019 to 14th July 2019.
- Names of the departments in which you got training and the duration of your training: Web Development for tow month Internship 14th May 2019 to 14th July 2019.

# **Training Program**

Libdex Solutions Private is a global software firm on a mission to create brilliant software's, websites. The spectrum of this company was started in 2016. We provide an end to - end service, including customized software, Web Development, Mobile Application Development, Web Security Services, SEO Solution, Web Hosting, Software Development, Android Application Development.

Our experienced as provide a single, local point of contact and act as supporter for your project, selecting suitable team members, drawing up schedules and guiding our significant resources to action. What is more, we practice development transparency, work in progress previews, schedules and other development information available in real time via our client portal.

They teach us topic as a task and then check the output of the given task if the task is correct then they asked me to explain the working of particular given task if the output of the task is not producing or generated then the help me for generating the output.

For the completion of the tasks the following web languages and scripts have been used: HTML for the construction of the layout, CSS and Bootstrap for the design of the layout, JavaScript and PHP for dynamic functioning and MySQL for data storage.

There are more attendant and requirement is need to build a project I know that, I can mix all language like HTML, PHP, JavaScript, CSS and more. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. And also, I understand the very nicely the concept of front-end developer and back end developer.

- Front end Developer: The front-end developer generally works at client side dealing with the web page design, graphics that is accessible to the user.
- Back end Developer: The back-end developer is a person who is responsible for the back-end development that interacts with the server.

#### **Problems and Solutions**

There are more problems web development because it contains more type mark-up language, methods, objects, modifiers, and many ways to create code or project. And there are not only problems in web development have more solution which can be easily and shortly.

#### Problems

There are more problems to create when I working with CSS. It is very easy but sometimes it's not matched with my expectation, and placed in appropriate place. Web designing is not an easy task. It takes a lot of creativity, uniqueness and brainstorming sessions to come up with a nice web design. Only a web designer can tell about the challenges they go through on regular basis.

#### Solutions

Really web development is so best and ultimate interested and hard for me, by the internship training I could learn an understand many objectives with interest as if was hard after learn I can understand web development is so interested then other language. I did solution of CSS and other problem in my training period. Clean code reduces unexpected errors, which can affect page load.

#### Learning Outcomes:

Website design and development were the main objective of this internship. To develop a web-based application or software there are several programming languages that are in use. Some of them are only used for the frontend and backend design of the software. For example-HTML, CSS, Bootstrap Framework etc. There are also some other programming languages that are used to develop the dynamic functions of the software or application. For example-PHP, JavaScript etc.

# **SWOT Analysis**

#### Strengths:

#### Area of knowledge

- a. High level of employees' knowledge in the field of technologies used.
- b. Management system supporting sharing of knowledge.

# Area of finance and ability to develop

- Easy access to internal sources of financing (owners, shareholders).
- Effective system of budgeting and cost control, giving reliable information for making investment decisions,

#### Weaknesses:

# Area of finance and ability to develop

- a. Limited access to internal sources of financing (owners, shareholders).
- b. Lack of a systematic process of cost control and budgeting, information about financial status presented to management are outdated and general, they do not allow to make effective investment decisions.

Opportunities: To startup new Entrepreneurship or business.

## Technological factors

- a. Improved access to technology and patents resulting from the globalisation, open communication channels and cooperation between businesses.
- Development of information technology in the field of design and simulation, raises the possibility of creating new product solutions and reach new customers.
- Almost unlimited access to information about the activities of competitive companies using the Internet and communication technologies,

Threats: Only basic awareness, planning, and implementation required to meet these challenges.

# Conclusion

As a conclusion, I can say that this internship was a great experience. Thanks to Libdex Solutions Private Limited, I acquired deeper knowledge about my technical skills but I also personally benefited. Currently PHP pages are a regular part of web applications, and one of the most popular language for web development used by developers worldwide. If we surf internet, we can see millions of websites built with PHP and MySQL. I realized that I could do more things than I thought like learning new things by myself.

There are huge occasion available for the students who want to work in this field. Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development professionals is increasing and this has created a huge job opportunity for the aspirants in the upcoming days.

# Recommendation

I specially recommended to organization please expand our branches in all State as soon as possible



# College of Engineering & Technology

Mohgaon, Wardha Road, Nagpur - 441 108 Tel: 07103-645410 Mob: 09922966173 Approved by AICTE, New Delhi, Govt. of Maharshtra & Affiliated to RTM Nagpur University E-mail: principal@tgpcet.com Website: www.tgpcet.com An ISO 9001:2008 Certified Institution

Olaswini Complex Gayatri Nagar, IT Park Road Nagpur - 440 022 Tel: 0712 664 8252 Fax: 0712 224 0656 E-mail: vidarbhabuss@yahoo.co.in

Date:10/8/2018

Ref: TGPCET/EE/2018-19/ 12/

To. The Manager, BSWSSSG Ltd. Nagpur - 440021

> Subject - Application for Industrial Training of Electrical Engineering student's in Br. SheshraoWankhedeShetkariSahakari Soot Girni Ltd, Butibori

Respected Sir/Madam,

Warm Regards from Tulsiramji Gaikwad Patil College of Engineering and Technology (TGPCET).

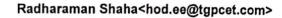
TGPCET is one of the most promising and upcoming Engineering Institutions in Vidarbha region. The college is a part of Gaikwad-Patil Group of Institutions which caters to cultivating students in various fields such as Engineering, Architecture, etc. It comes under the umbrella of Rashtrasant Tukadoji Maharaj Nagpur Univ ersity and is affiliated to AICTE.

As a professional education institute involved in producing engineers, it is imperative for us that our students are industry relevant and ready. As such we feel the urge for high amount of student interaction with the industrial setup. Hence, we encourage our students to maximize their industry interaction in ways such as industrial visits, case studies and projects. This helps them to get practical experience of theoretical knowledge that they acquire in their curriculum.

Our Students of final year from Electrical Engineering eager to visit .The students will be accompanied with faculty member during the duration of their study. We also hope that this can be a beginning of a long lasting, professionally satisfying and mutually beneficial relationship between our organizations.

Regards and Best wishes,

Department of Electrical Engineering HOD Tulsiramil Galkwad Patil College of Engineering & Technology, Nagpur





Final result.

4 messages

HR SWSS < hr@SWSS.com>

To: Radharaman Shaha<hod.ee@tgpcet.com

SAT, 12, August, 2018 at 7:36 PM

Greetings authority,

We are glad to inform you that your application for request of industrial Visit has been accepted by the organization, and you have been selected for the Industrial visit in our company.

This e-mail is regarding your Industrial Visist application as on 18/08/2018.

As you know it may be a very bustling time, we advise you to be mentally and physically equipped, and of course, you can get along with our expectations. You will get compensation from the company for the internship period thereof as discussed.

Note: This offer holds valid for two weeks from today's date. If you are failing to join us in the expected period, this opportunity will be invalid and considered as oblivion and unoccupied.



## Tulsiramji Gaikwad-Patil College of Engineering & Technology

Wardha Road, Nagpur-441 108 NAAC Accredited

#### Department of Electrical Engineering

Date:18/08/2018

## Industrial Visit to Br.Sheshrao Wankhade Textile Industry ,Butibori ,Nagpur

#### Attendance Sheet

Sr.No	Name of Students	Signature
1.	Sushma . E. pandey	& deu A
2.	Cunwant C. Deshkar	( Beit
3.	Satish & Pate	Dam
4.	Burai K. Ramteke	Gunfeke
5.	Ritesh N. Gaikwall	faul
6.	Kamlesh Bhailpale.	B.
7.	ASHISH DOYE	(Apost
8.	Ankit labhane	Agricol,
9.	Pawan chute	E M
10.	Dilaska Kotangale	Harager.
11.	Bharat Bhardari	Phanot
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16.	Siya s. Bagbare	**************************************
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18.	Migha - P. Ramteki	Mecheki.
19,	CKta V. pantawance	-Santouparo.
20.	Snehal B. Kachare	Skachare
21,	Akshata. R. Fulmali	Alumati
22.	Nitin Wakode	N.V. WUKKE
23.	Sakshec. D. Paruskur	Amuska
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27.	Dimpal D. Chopde	Hall
28.	Amilty R. UKdode	Po
29.	'Ankita' G. Shende	AND.



# Tulsiramji Gaikwad-Patil College of Engineering & Technology

Wardha Road, Nagpur-441 108

NAAC Accredited

# Department of Electrical Engineering

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30.	kajal k. kanoje.	Jayeshree
31.	Jayashree Mallick	(Parlo)
32.	Pohja Kolhe	Jighna
33.	Sushma Kawre	
34.	spenal b. Bhoome	Columb .
35.	Kopil G Kukade	
36.	Himmshy Murwome	(phonesus)
37.	Vmesh shellej	ussell
38.	Diksha G. Doolikar	Carlikas
39.	Kamlesh N. Karpute	Kurtostere
40.	Shubham.16 Graikwad	Sirconkind
41.	Soni) A. Rugel	Sutel
42.	Priti B. Hattimuse p	D-1 cettimerase
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Visit In-Charge

HoD,EE HOD

Department of Electrical Engineering Tulsiremii Galkwad Patil College of Empartming & Technology, Nagpur



# Tulsiramji Gaikwad-Patil College of Engineering & Technology



Wardha Road, Nagpur-441 108

Department of Electrical Engineering

Report of Mapping Test conducted for the visit organized at Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Butibori, Nagpur

Date of Test:-18.08.2018

Aim: To conduct a mapping test on Visit to Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Butibori, Nagpur for understanding the Distribution Station and its internal structure on "18th August 2018".

#### Objective:

- 1. To give the students basic concepts of Distribution System.
- 2. To impart students about specifications and construction of distribution system.

#### Methodology:

- The students are given induction about the visit. They were briefed about the objective of organizing such type of visits.
- Students from final year of the Electrical Engineering Branch were selected for the visit.
- Students were asked knowledge based questions on to know about the visit by searching it in the media. They were also asked to search the answer why such events are arranged by the organizing body.
- 4. Multiple Choice Questions based on the visit is prepared to check whether the visit was fruitful or not.

#### Outcome:

- It is observed by the faculty co-ordinator that the students utilized the travel time to reach the
  destination in searching the details of the event and know about the history of the place.
- Students curiously went to every project, learnt the concept of the project and also asked few questions to the projectees present with their projects.
- The students were proud to know that Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd. is one
  of the largest producers of Carded & Combed spun yarns for weaving and knitting industries in the
  world. Offering a diverse product line to fulfill demands of customers worldwide,
- Q.No.8 was based on the title of the Project Selected from the Department of Electrical Engineering of the college and 79% of the students could attempt the question correctly.
- 5. 95% of the students were of the opinion that if the innovation is of no use to society, it is of no use. This question was asked in the Q.No-1. This shows a very good outcome of the visit that the students came to know the practical understanding of "Distribution System".

# NAAC ACCREDITED



# Tulsiramji Gaikwad-Patil College of Engineering & Technology

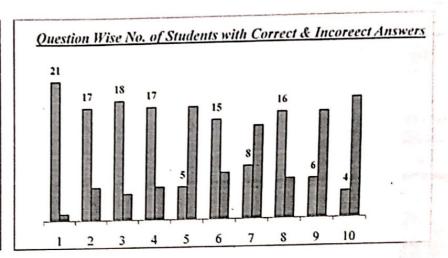


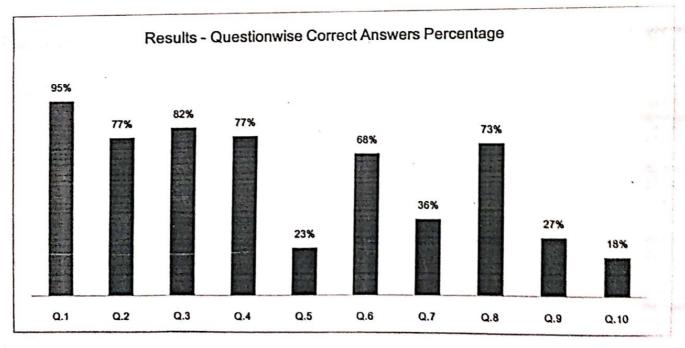
Wardha Road, Nagpur-441 108

### Department of Electrical Engineering

The Analysis of the Correct and Incorrect Answers attempted by the students is as shown below;

	Correct	t = 22 Incorrect Answers		
Que. No	Answers			
1.	21	1		
2.	17	5		
3.	18	4		
4.	17	5		
5.	5	17		
6.	15	7		
7.	8	14		
8.	16	6		
9.	6	16		
10.	4	18		





#### Actions to be taken:

- 1. Students who attempted Question No. 5, 7, 9 and 10 incorrect are to be sorted and found out the reason of not attempting in correct way.
- Such visits should be arranged in some intervals as it provides Project Based Learning to the student which is the need of the hour.

## Mapping of Industry visit with PO:

# NAAC ACCREDITED



# Tulsiramji Gaikwad-Patil College of Engineering & Technology



Wardha Road, Nagpur-441 108

# Department of Electrical Engineering

This industry visit helps student to learn about

- 1) Engineering Knowledge
- 2) Problem Analysis
- 3) Conduct investigation of complex problems
- 4) Modern tool usage
- 5) Environment and sustainability
- 6) Lifelong learning

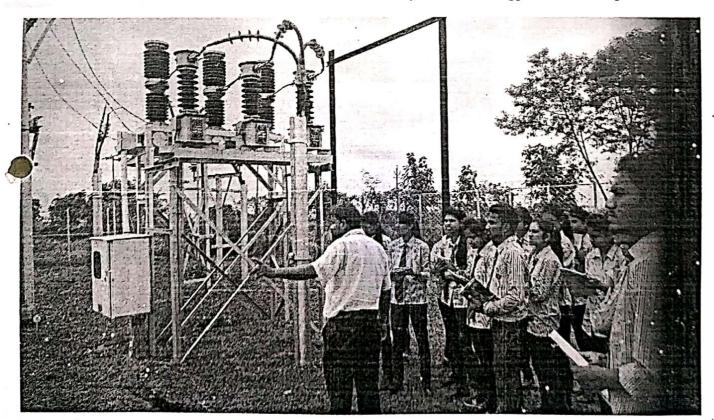
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
3	2		3	3		2					3	

#### Conclusion:

The industry visit concluded with Valedictory session wherein the certificates were distributed to all the participants. Mementos were also given to the Session Chairs. Mr.Amol Dakhole, HR Manager, Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Butibori, Nagpur. One of the trainees proposed a vote of thanks to all delegates, Organizing and Technical Committees for smooth conduct and huge success of one day industrial visit at Br. Sheshrao Wankhede Shetkari Sahakari Soot Girni Ltd, Butibori, Nagpur. The one day industrial visit was nicely and successfully managed by an faculty member of the department Prof. Chetan Jambhulkar.



Industrial Visit Br.S.Wankhade Textile Industry, Butibori, Nagpur on 18<sup>th</sup> August 2018



Department of Electrical Engineering

Calkwad Patil Collegering & Technology, Nagpur



#### Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441 108 NAAC Accredited

#### Department of Electrical Engineering

#### **Application for Internship Training**

To

The HoD

Department of Electrical Engineering,

Nagpur

Subject: Application for the issue the permission letter for Internship Training

Company Name: J. P. Electricals

Applicant Name: Krupal Davile, Gausar Regulwar

Respected Sir,

So kindly permit me as I have been thoroughly preparing industrial working culture under the guidance of experienced employee and gaining practical knowledge will develop my professional level with effectiveness.

Thanking You.



HOD HOD

Department of Electrical Engineering Tulsiramji Gaikwad Patil College of Engineering & Technology, Nagpur

Department of Electrical Engineering



Mohgaon, Wardha Road, Nagpur - 441 108 Tel: 07103-645410 Mob: 09922966173 Approved by AICTE, New Delhi, Govt. of Maharshtra & Affiliated to RTM Nagpur University E-mail: principal@tgpcet.com Website: www.tgpcet.com An ISO 9001:2008 Certified Institution



Gayatri Nagar, IT Park Road Nagpur - 440 022 Tel: 0712 664 8252 Fax: 0712 224 0656

Ojaswini Complex

E-mail: vidarbhabuss@yahoo.co.in

TGPCET/EE/2018-2019/201

Date: 10/8/2018

To, Mr. JP P Maurya, J.P.Electricals Pvt Ltd. M.I.D.C, Higna Nagpur

**Subject:** Letter regarding Summer Internship Program in your organization.

Respected Sir,

Warm greetings from GAIKWAD-PATIL GROUP OF INSTITUTIONS

GAIKWAD-PATIL GROUP OF INSTITUTIONS is one of the most prestigious educational groups in Nagpur. Tulsiramji Gaikwad-Patil College of Engineering & Technology (TGPCET) and Abha Gaikwad-Patil College of Engineering (AGPCE) offers a range of disciplines in Engineering & Technology and Management.

As a professional educational group involved in producing engineers, it is imperative for us that our students are industry relevant and ready and therefore we would like to request you to allow our following Student of 5th Semester Electrical Engineering, from Tulsiramji Gaikwad-Patil College of Engineering & Technology, Nagpur in your esteemed organization so that it will help us as well as to students to understand what an industry such as yours needs from a fresh engineering graduate. We are hoping to get our students work under your guidance. We will take the responsibility of Students Behavior and assure you that they will not break any regulations of your esteemed company.

- 1. Mr. Krupal Sanjay Davile
- 2. Gaurav Regulwar

Regards,

GAIKWAD-PATIL GROUP OF INSTITUTIONS

Department of EE



#### **Acceptances Letter for Internship**

To,

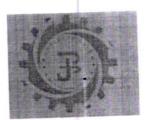
The Head, T&P

TGPCET,

Nagpur

With respect to your application we would like to provide the opportunity of internship for your students. This is an offer letter of internship which will be effective from 11<sup>th</sup> August 2018 to 10<sup>th</sup> September 2018. During this internship intern will not be provide any stiffen facility .We appreciate your interest to consider our company.

Thanking You,



J.P.Electricals ,Nagpur

# J.P. ELECTRICALS Certificate

The second of th

A Certificate in hand will further enrich and of course multiply your income..... your experience...

Mr./Ms. Gaurav Regulwar

has successfully completed\_

Summer Internship

Electrical Drives and their Controls

from J.P. ELECTRICALS, Nagpur.

Fraining/Internship/Workshop on

from 20/05 to 20/06 2019





Pre Industrial Training

1) Safety 2) Metering Devices 3) Transformers

Syllabus:-80% Practical 20% Theory

Electrical Heating
 Generator & Motors
 Control & Power Circuits
 Switchgear

Managing Director

Homony

15) Electrical Audits 16) Air Conditioner 17) Basic of High Tension Line

11) Automation 12) Lighting System 13) Hydraulic & Penumatic 14) Electrical Testing Equipments 9) Sensors 10) PLCs Scada

J.P. INSTITUTE OF TECHNOLOGY





A Certificate in hand will further enrich your experience...
and of course multiply your income.....

Mr./Ms. Krupal Davile

Summer Internship has successfully completed

Training/Internship/Workshop on.

Electrical Drives and their Controls

from J.P. ELECTRICALS, Nagpur.

from 11/08 to 10/09 2018



mausys Managing Director



Syllabus:-

80% Practical 20% Theory

J.P. INSTITUTE OF TECHNOLOGY

#### Pre Industrial Training

- 1) Safety
- 2) Metering Devices
- 3) Transformers
- 4) Electrical Heating
- 5) Generator & Motors
- 6) Control & Power Circuits
- 7) Switchgear

- 8) Drives
- 9) Sensors
- 10) PLCs Scada
- 11) Automation
- 12) Lighting System
- 13) Hydraulic & Penumatic
- 14) Electrical Testing Equipments

15) Electrical Audits

16) Air Conditioner

17) Basic of High Tension Line



# **NAAC Accredited** TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology

Mohgaon, Wardha Road, Nagpur – 441 108 (Approved by AICTE, Recognised by Govt. of Maharashtra, Affiliated to RTM Nagpur

University, Nagpur)

An IAO & ISO 9001:2008 Certified Institution

This Industrial Case Study report is submitted to Rashtrasant Tukdoji Maharaj Nagpur University in partial fulfillment of the requirement for the award of the degree

of

Bachelor of Engineering in Electrical Engineering



ELECTRICAL ENGINEERING DEPARTMENT **SESSION 2018-19** 

CERTIFICATE OF APPROVAL

This is to certify that the Industrial Case Study entitled J.P.Electrical carried out by

Mr. Krupal Davile of the 3<sup>rd</sup> year of Electrical Engineering, during the academic

year 2018-2019, in partial fulfillment of the requirement for the award of the degree

of Bachelor of Engineering in Electrical Engineering offered by the Rashtrasant

Tukdoji Maharaj Nagpur University.

Date: 12-9-2018

Place: Nagpur

Hod, EE

Department of Electrical Engineering Tulsiramii Galkwad Patti College of Engineering & Technology, Nagpur

#### **DECLARATION**

I/We certify that,

- a. The work contained in this Industrial Case Study has been done by me under the guidance of my supervisors.
- b. The work has not been submitted to any other Institute for any degree or diploma.
- c. I/We have followed the guidelines provided by the Institute in preparing the Industrial Case Study report.
- d. I/We have conformed to the norms and guidelines given in the Ethical Code of Conduct of the Institute.
- e. Whenever I/We have used materials (data, theoretical analysis, figures, and text) from other sources, I/We have given due credit to them by citing them in the text of the report and giving their details in the references. Further, I/We have taken permission from the copyright owners of the sources, whenever necessary.

Krapal Davile

#### **CONTENTS**

Declaration

Acknowledgement

Executive Summary

Overview of Organization

Plan of your Internship

SWOT Analysis

Conclusion

Recommendation

#### Acknowledgment

I first and foremost thank the almighty for having bestowed his blessings on me to complete the project.

I am indebted to our beloved Principal Dr. Prabha Nair, Tulsiramji Gaikwad Patil College of Engineering & Technology for his support and encouragement.

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# **Executive Summary**

In this report I have tried to list the overall aspects of the internship experience. I have summarized what is expected in the next chapters of this report. This report consists of four chapters. In the first unit of the report, it provides information about the hosting company. It starts from the brief history of the company and continues to listing of the projects the company has undertaken from the time it has been established. Also in this unit we will find the missions, visions and objective of the company. I have tried to establish the organizational structure of the head office. In second unit of the report it describes mainly about the internship experience. It starts by describing the sections I had been working on and continues to tell the different types of tasks that I had accomplished. In third unit of the report it describes assessment of the internship and the overall benefits that I have gained from this internship experience. It further divides the overall benefits into details and tries to explain them. The last unit of this report contains challenges that I had faced during the internship experience and also the conclusion drawn from the observation and suggested recommendations.

# Overview of the Organization

year 2000, J.P. ELECTRICALS are Established in the successfully enlisted amongst the prominent Manufacturer, Trader, Service Provider and Supplier of a quality approved range of Automation Electric Heaters, Electrical Sensors, Electrical Control Panel, Components, Electrical Sensor, Electrical Drivers, Electrical Cables, Electrical Wires, PLC Control Automation Service, Rectifiers Service and Electric Equipment Repair Service. Offered products are manufactured using the highest quality materials and progressive technology under the guidance of trained professionals in conformity with industrial quality norms. Moreover, we also provide these products in diverse specifications in order to cater specific requirements of clients. These products are highly acclaimed in the market due to their reliable performance, simple installation, less maintenance and elevated durability. These products are thoroughly checked by skilled quality specialists on several parameters at latest quality testing unit so as to ensure their faultlessness. Apart from this, ensure to maximize the satisfaction level of clients by providing them qualitative products as per their specifications.

#### Conclusion

I learnt a lot during my internship programme. The workingenvironment was really good and the person who guided also taught the work tome in a friendly manner. I had good experience, it was very useful to me and Ilearnt how to behave in a working environment. This is a golden opportunity given to me and all students. Organization to be dynamic should possess dynamichuman resources. Human resources to be dynamic acquire capabilities continuously; adopt the values and beliefs when employees use their initiative, take risks, experiment, innovate and make things, happen, the organization may said to have an enabling culture. Thus, the organization can develop, change and excel, only if it possess developed human resources.

#### Recommendation

The management of A.C should buy more facilities such ascomputers, vehicles so as to enable smooth running of the company's activities and respond to the dynamic competition environment. This technological advancement will enable the organization to change from manual tocomputerized methods of processing documents and proper record keeping.

More opportunities to students to do intern in theirorganization; The intern would also recommend the Organization to continue

giving internship placements to as many students as they can because some missthis experience which is also important requirement of the University due to

fact that they failed to get placements.

Allowances, the organization should give allowances to interns most especially transport allowances to cater for transport cost moststudents stay far from the internship places hence increasing my expenses. Therefore the intern recommends the Organization to put that in to action in orderto motivate interns and boost their productivity levels in performing their tasksduring the field attachment.

Serious supervision to the workers and students, theorganization should increase and ensure more supervision over the employees in

order to work effectively and also eliminate workers who relax, work lazily andperform actively after seeing their supervisors.

And at the end of the day we had a good Experience and learntmany more things from the Training.

Thank You,

## Plan of your internship program

After I finished the sixth semester of the 3rd University exam, I was invited to take the internship program. Before I was employed to I delivered the letter which was given for me from my college. And the company accepts my request letter and they gave their accepted letter for me, then after I submitted the acceptance letter which was received from the company to my department. My supervisor gave me an orientation about the whole activities which will be done during my intern time. In addition to this he told more about the organizational structure of the construction company, the management level of the organization and the raw materials used or their resource and other related information's in the first week of the internship time. Moreover, he advised me what I have to see and what shall I do in 30 days internship period. Then I was saw what types of works were done in the workshop. When I was investigating the workshop my supervisor told me new terms used by workers in the workshop.

# **SWOT Analysis**

#### Strengths:

Size and scale of parent company.

- Effective Advertising capability.
- Established brand name in the cruiser market.
- Established market distribution channel.
- Exports in market.

#### Weakness:

⇒ Products and quality can be an issue for few customers.

#### Opportunities:

#### Threats:

- Strong competition from the market.
- Dependence on government policies and rising raw material prices.
- Better public transport will affect in products.

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Thank You

HOD

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