



# PIE INFOCOMM PVT. LTD.

WHERE QUALITY MATTERS



## INTERNSHIP PROGRAM

### RESEARCH, TRAINING AND DEVELOPMENT

### WINTER TRAINING 2018-19- TECHNICAL

**“We are Here to Give You Live Experience”**

Dear All,  
B.tech. CS, IT, EC, EE, EN, CIVIL, MECHANICAL STUDENTS

Pie infocomm is a software company specialised in IT Services and Business Solutions Since 2002 to make Business Operation Easier, starting registrations for Winter Internship 2018-19 batches, to give **Live Experiences** and **Structured Work Experience related to a Student Career Goal**. These batches are going to be strated from 15 december ,the details of Which are mentioned ahead. Interested candidates may get themselves registered Soon.

- **Eligibility- B.tech. CS, IT, EC, IT, EE, EN, CIVIL, MECHANICAL, BCA, MCA, PGDCA, B.sc, MBA, DIPLOMA.**
- **Duration- 25 -30 Days ( No Holidays)** Classes will be Conducted around 5 to 6 Hrs.
- The students can get registered by submitting Rs. 1500/- which is a part of the total fee. There are no other hidden charges.
- The students who have been offered Free Internship or stipend also need to submit the registration tax amount of Rs. 1500/-
- The candidate can submit the registration amount and fill form at the office permises along with documents.
- The candidate can also get online registration done and submit the registration amount In the following account-
  1. **Account Name-** Vijay Kumar Jaiswal
  2. **Account Number-** 50000491154
  3. **Bank-** Allahabad Bank
  4. **Branch-** Hazratganj Branch, Lucknow
  5. **IFSC Code-** ALLA0210062(5<sup>th</sup> character is zero)
- The candidate can also submit their fee through Paytm on the number- **9453760339**
- Such candidate also need to mail a scanned copy of the below listed documents on- [hr@pieinfocomm.in](mailto:hr@pieinfocomm.in)
- The following documents are required for the registration Via Email-
  - **2 passport size photograph**
  - **Latest Marksheets of last attended semester**
  - **Curriculum Vitae- Hard Copy**
  - **Aadhar card Photocopy**
- The Internship process includes-
  - **Technology Basics**
  - **Advance Concepts of Selected Technology**
  - **Databases- MySQL, Oracle, Derby, SQLserver**
  - **Interaction with Clients for Project Analysis**
  - **Selection of Project Topic**
  - **Synopsis Preparation**
  - **DFD, ERD Preparation**
  - **Project/ Website/ Software Development**

Address -

Plot No. 10, Sector 10, Aliganj (Bhawan), Aliganj, Lucknow - 226024

9453760339, 9621676532

hr@pieinfocomm@yahoo.com, hr.pieinfocomm@gmail.com

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- **Documentation**

- The candidate who need PG/ Hostel facility will be assisted by us we are here to Support Them but they have pay there Money by their Own.
- All the candidate will be provided an **Internship Certificate as well as Technology Certificate** from the Pie Infocomm and the organisation visited after successfully completing the prescribed duration of training.

**To Provide Better and Live Experience to Our Students we will Provide them Temporary Post So, that they get better Way of Learning :**

**TEMPORARY POSTS AS AN INTERN-**

<b>BRANCH</b>	<b>POSTS</b>
<b>MECHANICAL &amp; CIVIL ENGINEER</b>	<b>Jr. AUTOCAD DESIGNER</b>
<b>ELECTRONIC &amp; ELECTRIACAL ENGINEER</b>	<b>Jr. AUTOMATION ENGINEER</b>
<b>COMPUTER SCIENCE &amp; INFORMATION TECHNOLOGY</b>	<b>Jr. SOFTWARE ENGINEER</b>
<b>PGDM, DIP MBA &amp; BBAIT STUDENTS</b>	<b>BUSINESS DEVELOPER MANAGER(HR, IT,IB, MARKETING, FINANCE)</b>

**LIST OF TECHNOLOGIES-**

<b>S.NO</b>	<b>TECHNOLOGY</b>	<b>FEE STRUCTURE</b>
1.	<b>PHP TECHNOLOGY</b> (Magento, Cake PHP, LARAVEL)	Rs. <b>18,000/-</b> (with Frameworks)
2.	<b>ASP.NET TECHNOLOGY</b> (MVC)	Rs. <b>10,000/-</b> ( with Framework)
3.	<b>JAVA TECHNOLOGY</b> (Hibernate, Soring, Ibatis, Struts)	Rs. <b>15,000/-</b> (with framework)
4.	<b>ANDROID TECHNOLOGY</b>	Rs. <b>10,000/-</b>
5.	<b>JAVA + PHP + ASP.NET</b>	Rs. <b>15,000/-</b>
6.	<b>PYTHON With DJANGO</b>	Rs. <b>15,000/-</b>
7.	<b>BIG DATA</b>	Rs. <b>15,000/-</b>
8.	<b>EMBEDDED TECHNOLOGY</b>	Rs. <b>10,000/-</b>
9.	<b>MATLAB TECHNOLOGY</b>	Rs. <b>10,000/-</b>
10.	<b>MATLAB + EMBEDDED</b>	Rs. <b>15,000/-</b>
11.	<b>CATIA</b>	Rs. <b>10,000/-</b>
12.	<b>PRO E</b>	Rs. <b>10,000/-</b>
13.	<b>AutoCAD TECHNOLOGY -2D, 3D</b>	Rs. <b>10,000/-</b>
14.	<b>STAAD PRO</b>	Rs. <b>10,000/-</b>
15.	<b>SOLIDWORKS</b>	Rs. <b>10,000/-</b>
16.	<b>RUBY</b>	Rs. <b>10,000/-</b>
17.	<b>CORE JAVA</b>	Rs. <b>5,000/-</b>
18.	<b>C LANGUAGE</b>	Rs. <b>5,000/-</b> , Lucknow - 226024
20.	<b>C++</b>	Rs. <b>5,000/-</b>

## TECHNOLOGIES'S SYLLABUS

### DOT NET TECHNOLOGIES SYLLABUS-



ASP.NET	ADVANCE ASP.NET	MVC
<p><b>INTRODUCTION</b></p> <ol style="list-style-type: none"> <li>1. Microsoft Visual Studio .Net Editor</li> <li>2. .Net Framework</li> <li>3. Internet Information Services</li> <li>4. Static and Dynamic Page</li> </ol> <p><b>STATE MANAGEMENT AND LIFE CYCLE OF PAGE</b></p> <ol style="list-style-type: none"> <li>1. Viewstate</li> <li>2. Session</li> <li>3. Application</li> <li>4. Hidden Control</li> </ol> <p><b>WEB SERVER CONTROL</b></p> <ol style="list-style-type: none"> <li>1. Standard Control</li> <li>2. Navigation Control</li> <li>3. Validation Control</li> <li>4. Login Control</li> <li>5. HTML Control</li> <li>6. Data Control</li> </ol>	<ul style="list-style-type: none"> <li>• Cookies</li> <li>• Java Script</li> <li>• Crystal Report</li> <li>• Security</li> <li>• Caching</li> <li>• Developing Name Space</li> <li>• Profile</li> <li>• Error Hnadling</li> <li>• Ajax Control Toolkit</li> <li>• Web Confrigation File</li> <li>• XML Database</li> <li>• Cascading Style Sheet and Theme</li> <li>• Web Setup and Development</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to MVC Architecture</li> <li>• MVC Framework</li> </ul> <p><b>DATABASE</b></p> <ul style="list-style-type: none"> <li>• SQL Server</li> <li>• MYSQL</li> <li>• ORACLE (SQL PLUS)</li> </ul> <p><b>NOTE-</b> Database Connectivity with all the three database will be undertaken.</p>

### JAVA TECHNOLOGY SYLLABUS-

<p><b><u>DATABASE</u></b> DBMS/ RDMS- Database and their Connectivity</p> <ul style="list-style-type: none"> <li>• ORACLE</li> <li>• MYSQL</li> <li>• DERBY</li> </ul> <p><b><u>CORE JAVA CONTENTS</u></b></p> <ul style="list-style-type: none"> <li>• Introduction and History of JAVA</li> </ul>	<p><b><u>J2EE CONTENTS</u></b></p> <ul style="list-style-type: none"> <li>• JDBC</li> <li>• GUI Programming using SWINGAPPLICATION, APPLLET</li> <li>• Introduction to J2EE</li> <li>• JAVA Script</li> <li>• SOCKET Programming</li> <li>• RMI</li> <li>• JAVA Servlets</li> </ul>	<ul style="list-style-type: none"> <li>• E-Mail</li> <li>• Using Data Access Objects</li> <li>• Server Side Validations</li> <li>• Using HTML + JAVAscript +AJAX + JSP</li> </ul> <p><b><u>FRAMEWORK</u></b></p> <ul style="list-style-type: none"> <li>• HIBERNATE</li> <li>• STRUTS</li> <li>• WICKETS</li> </ul>
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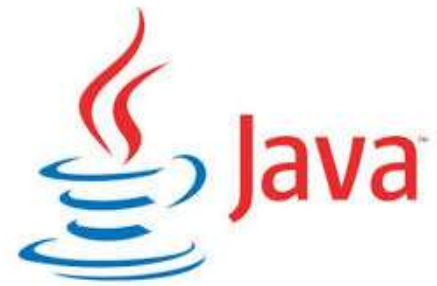
- Language Basics
- Object Oriented Programming
- Exception Handling
- Threading
- Collection Framework
- File Handling

- JAVA SERVER PAGE – JSP Programming
- File Uploading

- IBATIS

**INTERNSHIP PROGRAMS**

FOR



B.Tech. CS, IT, EC, EE, EN, CIVIL, MECHANICAL STUDENTS

**PHP GTECHNOLOGY SYLLABUS-**

**DATABASES**

DBMS/RDMS- Database and their connectivity

- ORACLE
- MYSQL
- DERBY

**PHP TECHNOLOGY**

- INTRODUCTION TO PHP
- FUNDAMENTALS OF PHP
- ARRAYS, FUNCTION IN PHP
- OBJECT ORIENTATION IN PHP
  - a) Concept of class and Object
  - b) Classes as Nameplace
  - c) Object as Refernce
  - d) Implementing Inheritance, Method overriding, Magic Function



**WORKING WITH FORMS**

- a) Global and Environmental Variable
- b) Script to accept Use Input
- c) Accessing input form
- d) Various elements of form
- e) Accessing input in AN
- f) Associate Array
- g) Get and post Method
- h) File Upload

**FILE MANIPULATION IN PHP**

- a) Testing, Opening, Closing Files
- b) Reading , Writing in a Files
- c) Locking File
- d) Miscellaneous Shortcut

**SAVING STATE IN PHP**

- a) Setting, Deleting a Cookie
- b) Creating Session cookie
- c) Working with Query String
- d) Session Function, Session Variable

**ADVANCED CONCEPT IN PHP**

- a) Date, Include, Email, SecureEmail
- b) Error, PHP, Exception
- c) PHP Filter

**PHP AND DATABASE**

- a) Database Concept
- b) Database Connection
- c) Creating Tables
- d) Getting Information on Database
- e) Inserting, Chiging, Deleting data in atable

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**E-Mail** – pieinfocomm@yahoo.com, hr.pieinfocomm@gmail.com

**Website** – www.pieinfocomm.in

## ANDROID TECHNOLOGY SYLLABUS

<ul style="list-style-type: none"> <li>✓ <b>ANDROID INTRODUCTION</b></li> <li>✓ <b>ANDROID ARCHITECTURE</b> <ul style="list-style-type: none"> <li>• Linux Kernel</li> <li>• Android Runtime</li> <li>• Application Framework</li> <li>• Application</li> </ul> </li> <li>✓ <b>APPLICATION OF ANDROID</b> <ul style="list-style-type: none"> <li>• Android Feature</li> <li>• Future Scope</li> <li>• Google Play</li> </ul> </li> <li>✓ <b>ANDROID S/W DEVELOPMENT KIT</b> <ul style="list-style-type: none"> <li>• System Requirements</li> <li>• Eclipse and SDK Installation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• AVD Manager</li> <li>✓ <b>ANDROID COMPONENTS</b> <ul style="list-style-type: none"> <li>• User Interface Components</li> <li>• Android other Components</li> </ul> </li> <li>✓ <b>CREATING ANDROID APPLICATIONS</b></li> <li>✓ <b>RESOURCES</b> <ul style="list-style-type: none"> <li>• References to resources in code</li> <li>• References to resources in XML file</li> <li>• Assets</li> </ul> </li> <li>✓ <b>DDM PERSPECTIVE AND IMPORTANT VIEWS</b> <ul style="list-style-type: none"> <li>• DDMS- Dalvik Debug Monitor Server</li> <li>• Log cat View</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• File explorer</li> <li>✓ <b>DATABASE HANDLING</b> <ul style="list-style-type: none"> <li>• SQLite Database Introduction</li> <li>• Database Connectivity</li> </ul> </li> <li>✓ <b>SENDING SMS IN ANDROID</b></li> <li>✓ <b>SENDING Email</b></li> <li>✓ <b>Playing Sound In ANDROID</b> <ul style="list-style-type: none"> <li>• Sound pool</li> <li>• Media player</li> </ul> </li> <li>✓ <b>TOAST</b></li> <li>✓ <b>NOTIFICATIONS</b></li> <li>✓ <b>ANDROID APPLICATION</b> <ul style="list-style-type: none"> <li>• Development via Eclipse</li> <li>• Development via external source</li> </ul> </li> </ul>
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## PYTHON – SYLLABUS

<ul style="list-style-type: none"> <li>✓ <b>Introduction to Python</b> <ul style="list-style-type: none"> <li>• Installation &amp; Working with Python</li> <li>• Understanding Python Variables</li> <li>• Python Basic Operators</li> <li>• Understanding Python Blocks</li> </ul> </li> <li>✓ <b>Python Data Types</b> <ul style="list-style-type: none"> <li>• Declaring &amp; using numeric data types : int, float, complex</li> <li>• Using string data type &amp; string operations</li> <li>• Defining list &amp; list slicing</li> <li>• Use of tuple data type</li> </ul> </li> <li>✓ <b>Python Program Flow Control</b> <ul style="list-style-type: none"> <li>• Conditional blocks using if, else &amp; elif</li> <li>• A Simple for loops in Python</li> <li>• For loops using ranges, string, list &amp; dictionaries</li> <li>• Use of while loops in Python</li> <li>• Loop manipulation using pass, continue, break &amp; else</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Python Function, Modules &amp; Packages</b> <ul style="list-style-type: none"> <li>• Organizing Python codes using functions</li> <li>• Organising Python projects into modules</li> <li>• Importing own module as well as external modules</li> <li>• Understanding packages</li> <li>• Powerful lambda Function in Python</li> <li>• Undertaking Packages</li> <li>• Programming using Python conditional &amp; loops and Block</li> </ul> </li> </ul>
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## MATLAB SYLLABUS-

<ul style="list-style-type: none"> <li>✓ <b>MATLAB Fundamentals</b> <ul style="list-style-type: none"> <li>• Working with the MATLAB user interface</li> <li>• Entering commands and creating variables</li> <li>• Performing analysis on vectors and matrices</li> <li>• Visualizing vector and matrix data</li> <li>• Working with data files</li> <li>• Working with data types</li> <li>• Automating commands with scripts</li> <li>• Writing programs with logic and flow control</li> <li>• Writing functions</li> </ul> </li> <li>✓ <b>MATLAB for Data Processing and Visualization</b> <ul style="list-style-type: none"> <li>• Importing Data</li> <li>• Organizing Data</li> <li>• Visualizing Data</li> <li>• Exporting Data</li> </ul> </li> <li>✓ <b>MATLAB Programming Techniques</b> <ul style="list-style-type: none"> <li>• Programming for correctness</li> <li>• Structuring data</li> <li>• Structuring code</li> <li>• Classes and objects</li> </ul> </li> </ul> 	<ul style="list-style-type: none"> <li>✓ <b>Communication with external devices</b> <ul style="list-style-type: none"> <li>• Serial port</li> <li>• Parallel port</li> <li>• Sound card</li> <li>• Video input</li> </ul> </li> <li>✓ <b>Building Graphical User Interface</b></li> <li>✓ <b>SIMULINK</b> <ul style="list-style-type: none"> <li>• Introduction, Importance</li> <li>• Model Based Design</li> <li>• Tools</li> <li>• Mathematical Modelling</li> </ul> </li> <li>✓ <b>Final Project</b> <ul style="list-style-type: none"> <li>• Image Processing with MATLAB</li> <li>• Signal Processing</li> <li>• Simulation of electric machine and drive systems using MATLAB and SIMULINK</li> <li>• Circuit Analysis with MATLAB Applications</li> <li>• Control Design Acceleration</li> <li>• MATLAB for Data Acquisition and instrument Control</li> <li>• Physical Modeling of Mechanical Systems with Sim Mechanics <ul style="list-style-type: none"> <li>• Stateflow for Logic Driven Systems with Sim Mechanics</li> <li>• State flow for Logic Driven System Modeling</li> </ul> </li> <li>• Parallel Computing with MATLAB</li> </ul> </li> </ul>
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## EMBEDDED SYSTEM C LANGUAGE - SYLLABUS

<ul style="list-style-type: none"> <li>✓ <b>INTRODUCTION TO EMBEDDED SYSTEM</b> <ul style="list-style-type: none"> <li>• History &amp; need of Embedded System</li> <li>• Basic components of Embedded System</li> <li>• Programming Language Classification of Embedded System</li> <li>• Advantage &amp; Disadvantage</li> </ul> </li> <li>✓ <b>MICROPROCESSOR &amp; MICROCONTROLLER</b> <ul style="list-style-type: none"> <li>• Difference between microprocessor and microcontroller</li> <li>• Classification based on architecture</li> <li>• Memory classification</li> </ul> </li> <li>✓ <b>INTRODUCTION TO MCS-51</b> <ul style="list-style-type: none"> <li>• Introduction of MCS-51</li> <li>• Block diagram description of MCS-51</li> <li>• Special feature of MCS-51</li> <li>• Pin description of MCS-51</li> </ul> </li> <li>✓ <b>REGISTERS &amp; MEMORY OF</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>INTERFACING OF SEVEN SEGMENT DISPLAY</b> <ul style="list-style-type: none"> <li>• Introduction of seven segment display</li> <li>• Types of seven segment display</li> <li>• Interfacing Circuit Description of 7 Segment Display</li> <li>• Programming of Seven Segment Display Interfacing</li> <li>• Programming of 16x2 LCD</li> </ul> </li> <li>✓ <b>INTERFACING OF LCD</b> <ul style="list-style-type: none"> <li>• Introduction to 16x 2 LCD</li> <li>• Commands of 16x2 LCD</li> <li>• Interfacing Circuit Description of 16x2</li> <li>• Programming of 16x2 LCD</li> </ul> </li> <li>✓ <b>INTERFACING OF SWITCHES &amp; KEYBOARD MATRIX</b> <ul style="list-style-type: none"> <li>• Introduction to Switches and Keyboard Matrix</li> <li>• Interfacing Circuit of Switching &amp;</li> </ul> </li> </ul>
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### AT89C51

- Description of RAM
- Description of CPU Register
- Functions of SFR
- ✓ **INTRODUCTION OF EMBEDDED C**
- Introduction to Embedded C
- Difference between C & Embedded C
- Programming style, Basic structure of C program

### ✓ CONSTANTS, VARIABLES & DATA TYPES

- Keywords & Identifiers
- Data type & its memory representation
- Array and strings

### ✓ OPERATORS

### ✓ CONTROL STRUCTURE & LOOPS

### ✓ FUNCTIONS

- Functions, types of functions
- Multi functional program, return values

### HANDLING POINTERS

- Undertaking basics of pointers
- Rules for pointers
- Pointer declarations
- Accessing a variable through its pointer
- Pointer and array
- ✓ **INTRODUCTION TO SOFTWARE**

- Kiel compiler

- proteus

### ✓ INTERFACING OF LED

- Introduction of LED's
- Interfacing Circuit of LED's Description of LED's
- Programming of LED's Interfacing

**EMBEDDED SYSTEMS**



### Keyboard Matrix

- Programming of Keyboard Matrix & Switches
- Controlling of LED's by using Switches
- Keyboard Matrix & LCD Interfacing Program

### ✓ INTERFACING OF MOTOR

- Introduction to Motors
- Types of Motor used in Embedded System
- Programming & Controlling of Motors in Embedded System

### ✓ TIMER & COUNTER PROGRAMMING

- Introduction to Timer & Counter
- Difference between Timers & Counter
- Description of SFR associated with Timers & Counters
- Programming of Timer and Counters

### ✓ SERIAL COMMUNICATION PROGRAMMING

- Introduction to Serial Communication
- Types of Serial Communication
- Description of SFR associated with Serial Communication
- Introduction & Interfacing of UART
- Programming of UART

### ✓ INTERRUPT DRIVEN PROGRAMMING

- Introduction to Interrupts
- Types of Interrupts
- Programming of Software & Hardware Interrupts

### ✓ INTERFACING OF ADC

- Introduction to ADC
- Programming of ADC

### ✓ SENSOR INTERFACING

- Introduction to Sensing Devices
- Interfacing of IR Sensors

### CONTACT FOR ADMISSIONS

### AUTOCAD- SYLLABUS

#### ✓ Getting Started with AutoCAD

- Starting AutoCAD, AutoCAD User Interface
- AutoCAD's Cartesian Workplace

Annotation Styles- Creating Text Styles, Creating Text Styles, Creating Dimension Styles, Creating Multilayer Styles

- Basic Drawing & Editing Commands
- Drawing Lines, Circles, Rectangles
- Drawing Precision in AutoCAD
- Using Running Objects Snaps
- Using Object Snap Overrides
- Drawing with Snap and Grid
- Making change in your Drawing
- Selecting Objects for Editing
- Moving, Copying, and Mirroring Objects

### ✓ Further Concepts

- What are Layers? Layer States
- Creating New Drawing with Templates
- **Advanced object types**- Drawing Arcs, Drawing, Polylines, Editing Polylines, Drawing Polygons, Drawing Ellipse
- Working with Objects Properties, Measuring Objects
- **Inheritance, Polymorphism**
- Interfaces and Abstract Classes
- Advanced Editing Commands
- Trimming and Extending Objects
- Stretching Objects
- Creating Fillets and Chamfers
- Creating Arrays of Objects

- **Inserting Block**- Blocks, Working with Dynamic Blocks, Inserting Blocks Using Design enter

- **Setting Up a Layout**- Printing Concepts, Working in Layouts , Creating Viewports

- **Printing Your Drawing**- Printing Layouts, Printing from the Model Tab

- **Text** – Working with Annotations, Adding Text in a Drawing

### ✓ Adding Dimensions

- Dimensioning Concepts
- Adding Linear Dimensions
- Adding Radial and Angular Dimensions
- Editing Dimensions

### ✓ Advanced AutoCAD

- **Accurate Positioning**- Coordinate Entry, Locating points with Tracking ,Construction Lines, Placing Reference Points

- **Parametric Drawing**- constraints, Geometric Constraints , Dimensional Constraints

- **Creating Templates**- Controlling Units Display,Creating New Layers, Adding Standard Layouts to Templates

### **External Reference**- Attaching External References

**Dynamic**- Working with Dynamic Blocks, Creating Dynamic Blocks Definitions, Dynamic Blocks Authoring Tools

**Attributes** – Inserting Blocks with Attributes, Editing Attribute Values, Defining Attributes, Extracting Attributes

**External Reference**- Attaching External References, Modifying External References,Xref Specific Information

### ✓ Solids Modeling

- Introduction to 3D Modeling
- Creating Solid Primitives
- Creating Models
- Creating Composite Solids
- Working in 3D

### ✓ Modeling from 3D

- Creating Models from Cross- Sections
- Converting 2D Objects to Solid or Surface

### ✓ Editing Models

- Adding Details to Your Solid Materials
- Converting Objects
- Editing Solid Models
- Extracting Geometry from Solid Models
- Changing the Model Positions
- Duplicating Information from Solid Models
- Getting Information from 3D Objects

### ✓ Sectioning a Model and Generating Drawings

- Sectioning a Solid Model and Generating 2D Geometry
- Creating Drawing from 3D Models

### ✓ Using Visual Styles

### ✓ Using Light

### ✓ Using Materials

### ✓ Rendering

### ✓ Using Camera and View

### ✓ Setting Up a Layout

### ✓ Printing Your Drawing



, Aliganj, Lucknow - 226024



## C LANGUAGE- SYLLABUS

### ✓ **Overview of C Language**

- Introduction of C language

### ✓ **Data Type, Constants & Variable**

- What is Data Type in C
- Integers, long and short in C
- Chars, signed and unsigned in C
- Floats and Doubles in C
- Constant, Variables and Keywords in C
- Summary

### ✓ **Statements**

- if else statements in C
- Break, Continue and switch in C
- For Loop , while loop, do-while Loop in C

### ✓ **Function**

- What is Function in C
- Call by Value and Call by Reference in C
- Passing Values between Functions in C

### ✓ **Pointer**

- Introduction to pointers
- Pointer Notation in C
- Back to Function Calls in C
- Recursion in C

### ✓ **Preprocessor**

- C preprocessor in C
- Feature of C
- Macro Expansion in C
- File Inclusion in C
- Miscellaneous Directive in C



## **Programming**

### ✓ **Arrays**

- What are Arrays in C
- A Simple Program Using Array
- How to initialize Array in C
- Passing Array Elements in C
- Pointer and Array in C
- Passing entire Array to a Function in C
- Two Dimensional Array
- Initializing a 2D Array
- Pointer and 2D Array
- 3D Array

### ✓ **String**

- What are Strings
- How to get length of a string in C
- How to copy a string in C
- How to concatenate a string in C
- How to compare two strings in C

### ✓ **Structures**

- What is Structure in C
- Declaring a Structure in C
- Accessing Structure elements in C
- How Structure elements are stored
- Array of Structure in C
- Uses of Structure

### ✓ **File Operation**

- File input/output in C
- File Operations in C
- Opening a File, Reading from a File and Closing the File in C
- Counting characters, Tabs, Spaces
- Writing To a File and File Opening Modes in C

### ✓ **Operator & Enum**

- Operation on Bits in C
- Bitwise AND, OR and XOR Operators
- One's Complement Operator
- Right shift and Left shift Operator
- Enumerated Data Types


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**Website** – www.pieinfocomm.in


## C ++ LANGUAGE- SYLLABUS

<ul style="list-style-type: none"> <li>✓ <b>AN INTRODUCTION TO OBJECT – ORIENTED PROGRAMMING</b> <ul style="list-style-type: none"> <li>• What is Object Oriented Programming</li> <li>• Object – Oriented Programming System</li> <li>• Advanced Concepts</li> <li>• An Introduction to Unified Modeling Language (UML)</li> </ul> </li> <li>✓ <b>C++ AN INTRODUCTION</b> <ul style="list-style-type: none"> <li>• Overview of C++</li> <li>• Classes and Objects</li> <li>• Functions and Variables in C ++</li> <li>• Constructors</li> </ul> </li> <li>✓ <b>DIFFERENCE BETWEEN C AND C++</b></li> <li>✓ <b>HEADER FILES</b></li> </ul> <p>BCA, MCA, BBA, MBA, B.Com. (Hons.), PGDCA, PGDM, DIPLOMA, B. Sc. IT STUDENTS</p>	<ul style="list-style-type: none"> <li>✓ <b>PROGRAMMING IN C++</b> <ul style="list-style-type: none"> <li>• Arrays</li> <li>• Pointers</li> <li>• Structure and Unions</li> </ul> </li> <li>✓ <b>ADVANCED CONCEPTS</b> <ul style="list-style-type: none"> <li>• Operators Overloading</li> <li>• Storage Mngement</li> <li>• File Handling</li> <li>• Inheritance – Extending Classes</li> <li>• Polymorphism</li> <li>• Streams and Templates</li> </ul> </li> </ul> 
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## DIJANGO- SYLLABUS

<ul style="list-style-type: none"> <li>✓ <b>INTRODUCTION</b> <ul style="list-style-type: none"> <li>• What is Django?</li> <li>• Installing Django</li> </ul> </li> <li>✓ <b>VIEWS</b> <ul style="list-style-type: none"> <li>• Your first View</li> <li>• Mapping urls to View</li> <li>• How Django process request?</li> <li>• Urls patterns</li> <li>• 404 Errors</li> </ul> </li> <li>✓ <b>TEMPLATES</b> <ul style="list-style-type: none"> <li>• Template Basic</li> <li>• Contexts</li> <li>• Built –in tags &amp; filters</li> <li>• Using Template in View</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>MODELS</b> <ul style="list-style-type: none"> <li>• Define Models</li> <li>• Setting up database access</li> <li>• Creating Django Apps(s)</li> <li>• Defining Model Fields</li> <li>• Creating a Models</li> <li>• How to create tables for models in DB</li> <li>• Inserting &amp; updating Data</li> <li>• Deleting Objects</li> </ul> </li> <li>✓ <b>DIJANGO ADMIN INTERFACE</b> <ul style="list-style-type: none"> <li>• Enabling Admin Interface</li> <li>• Creating Admin User</li> </ul> </li> <li>✓ <b>DIJANGO FORMS</b> <ul style="list-style-type: none"> <li>• Forms in Django</li> <li>• Searching Query</li> <li>• GET &amp; POST Methods</li> <li>• Form field in Django</li> <li>• Building a form in Django</li> </ul> </li> </ul> 
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Address – 1<sup>st</sup> Floor, B-12, Sector E (Opposite) | Contact - 94537 | E-Mail – pieinfocomm@yahoo.com, hr.pieinfocomm@gmail.com | Website – www.pieinfocomm.in




# INTERNSHIP PROGRAMS


FOR

**B.Tech. CS, IT, EC, EE, EN, CIVIL, MECHANICAL STUDENTS**

**BCA, MCA, BBA, MBA, B.Com. (Hons.), PGDCA, PGDM, DIPLOMA, B. Sc. IT STUDENTS**



SUMMER INTERNSHIP



## Internship

  
**PLACEMENT**  
 with professional training  
 in the major intern required

  
**RECOMMENDATION LETTER**  
 for good performance

  
**ALLOWANCE**  
 available depending on  
 host organization

### STAAD PRO TECHNOLOGY – SYLLABUS

<ul style="list-style-type: none"> <li>Introduction to Staad. Pro</li> <li>Structural Modeling</li> <li>Other Useful Function to Complete the Geometry</li> <li>Property Details</li> <li>Member</li> </ul>	<ul style="list-style-type: none"> <li>Loading Particulars</li> <li>Analysis</li> <li>Post Processing</li> <li>R. C Design</li> <li>Steel Design</li> <li>Seismic Analysis</li> </ul>	<ul style="list-style-type: none"> <li>Wind Load Analysis</li> <li>Design Of Elevated Water Tanks</li> <li>Design of Slabs</li> <li>Introduction to Software</li> </ul> <p style="color: red; font-weight: bold; margin-top: 10px;"><b>NOTE- This Syllabus Contains only Major Heading , Each and Every Sub Topic will be taken Up Under them</b></p>
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**FRIENDSHIP**  
 Network for career

  
**SOFT SKILLS**  
 multicultural teamwork  
 and communication skills

### SOLIDWORKS TECHNOLOGY SYLLABUS

#### CONTACT FOR ADMISSIONS

**Address** – 1<sup>st</sup> Floor, B-12, Sector E (Opposite Kendriya Bhawan), Aliganj, Lucknow – 226024  
**Contact** - 9453760339, 9621676532  
**E-Mail** – pieinfocomm@yahoo.com, hr.pieinfocomm@gmail.com  
**Website** – www.pieinfocomm.in

<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Solid Work Basics and the Use Interface</li> <li>• Introduction to Sketching</li> <li>• Basic Part Modeling</li> <li>• Modeling a Casting or Forging</li> <li>• Patterning</li> </ul>	<ul style="list-style-type: none"> <li>• Revolved Features</li> <li>• Shelling and Ribs</li> <li>• Editing :Repairs</li> <li>• Editing : Design Changes</li> <li>• Configuration</li> <li>• Using Drawinmg</li> <li>• Bottom – Up Assembly Modeling</li> </ul>	<ul style="list-style-type: none"> <li>• Using Assemblies</li> <li>• Templates</li> <li>a) Options Setting</li> <li>b) Documents Templates</li> </ul> <p><b>NOTE-</b> This Syllabus contains only Major Headings. Each and Every Subtopic will be taken Up Undertaken</p>
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## LARAVEL FRAMEWORKS

Laravel is a Free, open – source PHP web Framework created by “**Taylor Otwell**” and intended for the Development of web Application following the model- view- controller ( MVC) architectural pattern.

<ul style="list-style-type: none"> <li>✓ <b>Introduction of Laravel PHP Framework</b> <ul style="list-style-type: none"> <li>• Introduction of Laravel</li> <li>• Installing Laravel</li> <li>• Introduction of MVC Pattern</li> <li>• Laravel Directory Structure</li> </ul> </li> <li>✓ <b>Setting up a Sample Project ‘Hello World’</b> <ul style="list-style-type: none"> <li>• Artisan command to generate a controller</li> <li>• Basic Routing</li> <li>• Introduction of MVC Pattern</li> <li>• Laravel Directory Structure</li> </ul> </li> <li>✓ <b>HTML to Laravel Blade Syntax</b> <ul style="list-style-type: none"> <li>• Display images</li> <li>• Make Anchor</li> <li>• Displaying Variables</li> <li>• Conditional Statements</li> <li>• Loop in Blade</li> <li>• PHP Function</li> <li>• Build Your Master Layout</li> <li>• Extending the Master Layout</li> <li>• Nested Views</li> <li>• Include Views</li> <li>• Adding Assets</li> </ul> </li> <li>✓ <b>Using Forms and Gathering Inputs</b> <ul style="list-style-type: none"> <li>• Adding HTML 5 Package</li> <li>• Creating a Form using Blade Syntax</li> <li>• Validating Use Inputs</li> <li>• File Uploading</li> <li>• Error Message Handling</li> <li>• Encrypting and Decrypting Data</li> <li>• Preserving the Data</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Using Controllers and Routes for URL’s</b> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Creating a Basic Controller</li> <li>• Creating a Route using a Closure</li> <li>• Making the Controller As a Routing</li> <li>• Using Route Groups</li> <li>• Using Route Resources</li> </ul> </li> <li>✓ <b>Database Connectivity</b> <ul style="list-style-type: none"> <li>• Introduction Model</li> <li>• Type of Database using</li> <li>• Eloquent ORM Model</li> <li>• Naming Convention</li> <li>• Table Name</li> <li>• Primary Key</li> <li>• Timestamps</li> <li>• Use Models</li> <li>• Display data from Models in Views</li> <li>• Manage Mass Assignment</li> <li>• CRUDS Operation ( Create Read Update Delete Search Operation)</li> <li>• Fluent</li> <li>• Simple Query String</li> <li>• CRUIDS Operation</li> <li>• Query Builder</li> <li>• CRUIDS Operation</li> </ul> </li> <li>✓ <b>Security and Sessions</b> <ul style="list-style-type: none"> <li>• Removing Public from URL</li> <li>• Sessions Effective</li> </ul> </li> </ul>
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## PROGRAM SCHEDULE FOR B.TECH-

DAYS	PROGRAM
1-10 Days	<ul style="list-style-type: none"> <li>• Introduction of Technology</li> <li>• Basic Of Technology</li> </ul>
10-20 Days	<ul style="list-style-type: none"> <li>• Detail Analysis of Technology</li> <li>• Starting with Projects</li> <li>• Knowledge of Frameworks</li> <li>• Work with Frameworks</li> </ul>
20-30 Days	<ul style="list-style-type: none"> <li>• Awaring with clients Demands</li> <li>• Awaring with Real world Projects</li> <li>• Live Dealing with Market</li> <li>• Classes for Personality and Developments</li> <li>• Work on Communication Skills</li> <li>• Providing Knowledge of Real Private World</li> </ul>

## PROGRAM FOR MBA ASPIRANTS-

This is the Perfect Career Fit and a Fantastic Way to Expose your Verstalie set of Skills that can help you to Enchance the way of dealing with this profession, this is Prior Work Experience which will give you the Knowledge of this Professional Environment, whether it be **Management Information System, logistics and Finance**. This is very Important to use this Oppurtunity during your Internship to build your Professional network to help land your dream after Graduation.

**We have Sublets Departments of Mutual Fund and Finance i.e “YOY Pvt. Ltd.” Which haqs main focus on Share Trading, Stock Exchange, Digital marketing, Demat Accounts and Trading Equity Securities, we are specially dealing with the Finance and Marketing.**

We are dealing with these given below Branches of MBA and Providing them Live Experience-

- HR ( Human Resources)
- Marketing
- Finance
- IB ( International Business)
- IT (Information Technology)

## WORKS FOR HR, MARKETING, FINANCE, IB, IT During INTERNSHIP-

**This Internship Program will give all over Focus on Live Experiences of this Corporative World**

BRANCH	WORK
HR	<ul style="list-style-type: none"> <li>• RECRUITMENTS, SEMINARS, WORKSHOPS, TRAINING AND DEVELOPMENT</li> </ul>
MARKETING	<ul style="list-style-type: none"> <li>• DEALING WITH CLIENTS &amp; MARKETING OF SOFTWARE, WEB APPS, INTERNSHIP PROGRAMS</li> </ul>
IT	<ul style="list-style-type: none"> <li>• PROJECT MANAGEMENT,WORKSHOPS, DIGITAL COMMERCE, DIGITAL MAKETING</li> </ul>
FINANCE	<ul style="list-style-type: none"> <li>• STOCK TRADING</li> </ul>
IB	<ul style="list-style-type: none"> <li>• DEALING WITH CLIENTS &amp; PROJECTS, MARKETING OF PROJECTS</li> </ul>

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## PERSONALITY DEVELOPMENT PROGRAM FOR MBA and B.TECH

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Website - [www.pieinfocomm.in](http://www.pieinfocomm.in)

Unit 1	Personality Essentials	Inner Personality Development, Role of motivation & body language, Filling the GAP- Grooming, Attitude, Personality.
Unit 2	Business Writing	Use of Simple structure while writing, Apply a positive tone in business communication.
Unit 3	Resume Building Skill	Art of Preparing Correct and adequate CV
Unit 4	Team Work Skill	Art of working with a team of members
Unit 5	Job Search Skill	How to search for jobs that suit you and your personality
Unit 6	Stress Management	Introduction to Stress Causes of Stress, Impact Management Stress, And Managing Stress.
Unit 7	Time Management	Time as a Resource, Identify Important Time, Management Wasters, Techniques for better Time Management.

Unit 8	Group Discussion	How to emerge differently at a Group Discussion
Unit 9	Through Practice	<ul style="list-style-type: none"> <li>• Business Writing Mock</li> <li>• Group Discussion</li> <li>• Public Speaking</li> <li>• Preparing CV</li> </ul>

### ADVANTAGES-

- ✓ After completion of internship company will provide placements in **Pie Infocomm Pvt. Ltd**
- ✓ Students will get two certificate One is for Internship and other One is for Technology
- ✓ This internship Program allows you to Gain Valuable Experiences through Structured Programs during this Opportunities
  - Learn about a career field from the inside and decide , if this is the Right Career Field for you
  - Work alongside a Professional in your chosen Career Area
  - Observe the Workplace and see if it Matches Expectations
  - Learn New Skills and Add to your Knowledge Base while gaining Confidence in your Abilities
  - Opportunity to Practice Communication and Teamwork Skills
  - Gain Industry Knowledge First Hand from this Organisation and Professionals
  - Achieve a sense of Accomplishment by Contribution to an Organisation
  - Practice new Networking Skills while Establishing a Network of Professional Contacts Mentors & Referenc

**“Open To Door to Advice on the Next Steps to take On Your Career Path”**

Website – [www.pieinfocomm.in](http://www.pieinfocomm.in)