



DATA ANALYTICS



ABOUT US

Irizpro Training Institute operates in Pune, often referred to as the Oxford of the East. We are an IT training service provider conducting training programs across various software fields and offering certifications for individuals and organizations. Our team comprises fully qualified and experienced professionals dedicated to delivering high-quality training

Irizpro Training Institute is connected with over 600 reputed IT companies, where we have successfully placed our candidates. Hundreds of our satisfied students are now working in well-reputed MNCs such as Bajaj, Accenture, Capgemini, L&T Infotech, Siemens, TCS, Wipro, as well as many mid-level companies like Allure, Datamatica, Mindbody, Scalable, Scatterpie, Clinivantage, Square Yards, and many more.

Education Partners



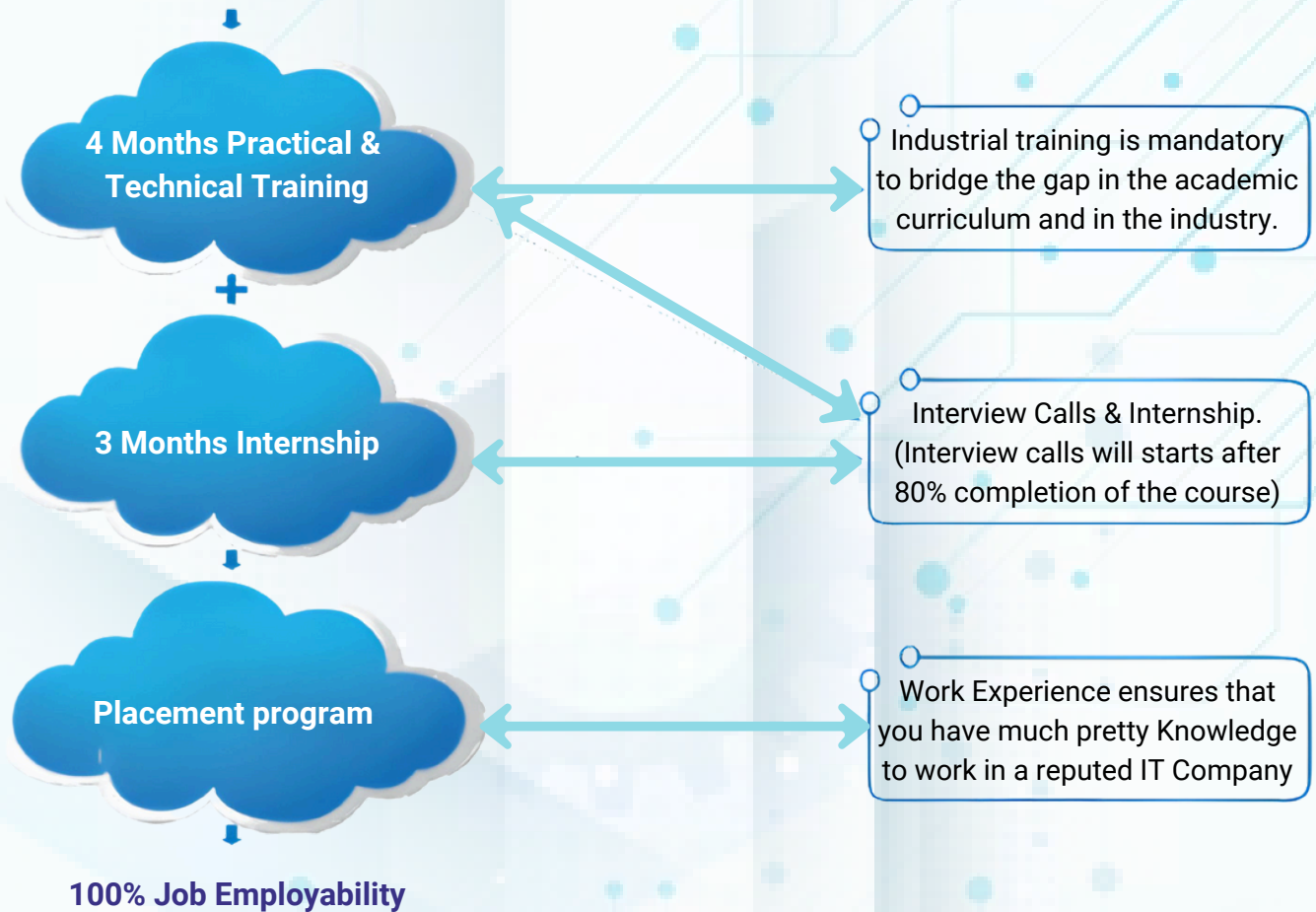
Data Analytics



Our Process & Methodology:



PROGRAM FLOW



UNIQUE FEATURES

- Live Class Recording
- Complete Practical Oriented Training

DATA ANALYTICS

Advanced Excel Syllabus

Module 1: Excel Basics

- Understanding the basic spreadsheet
- Essential formula knowledge
- Absolute and relative cells
- Protecting and un-protecting worksheets and cells

Module 2: Sorting and Filtering Data

- Sorting tables
- Using multiple-level sorting
- Using custom sorting
- Filtering data for a selected view (AutoFilter)
- Using advanced filter options

Module 3: Data Validations and Conditional Formatting

- Specifying a valid range of values for a cell
- Specifying a list of valid values for a cell
- Specifying custom validations based on a formula for a cell
- Applying conditional formatting to highlight and format cells based on certain conditions

Module 4: Data manipulation and analysis using advanced functions and formulas

- Writing conditional expressions (using IF)
- Using logical functions (AND, OR, NOT)
- Using lookup and reference functions (VLOOKUP, HLOOKUP, MATCH, INDEX)
- VLOOKUP with Exact Match, Approximate Match
- Nested VLOOKUP with Exact Match - VLOOKUP with Tables, Dynamic Ranges
- Nested VLOOKUP with Exact Match
- Using VLOOKUP to consolidate data from multiple sheets

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5. Advanced data visualization techniques

- Creating interactive charts, graphs.
- Using data bars, color scales, and icon sets for conditional formatting.
- Utilizing slicers and timelines to filter and analyze data.

Module 5: Working with PivotTable and PivotChart

- Creating multi-level PivotTables
- Advanced PivotTable features (slicers, timelines, etc.)
- Custom calculated fields in PivotTables
- Creating Pivot Charts from PivotTables

Module 6: Data Transformation with Power Query

- Introduction to Power Query
- Merging and appending queries
- Advanced data cleaning and shaping
- Managing query connections and transformations

Module 7: Data Modelling with Power Pivot

- Introduction to Power Pivot
- Data modeling principles
- Creating relationships between tables
- Using DAX (Data Analysis Expressions) functions

Module 8: Automation with Macros

- Recording and editing macros

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Power BI Syllabus

1. Introduction to Power BI

- Overview of Power BI and its features
- Installation and setup
- Getting started with Power BI Desktop and Power BI Service
- Connecting to data sources.

2. Data Transformation using Power Query

- Importing and transforming data from various sources.
- Data cleaning and shaping
- Data loading and transformation using Power Query
- Creating relationships between tables.
- Applying data shaping techniques using Power Query

3. Advanced Data Modelling

- Relationships in Power BI
- Introduction to DAX (Data Analysis Expressions)
- Creating calculated columns and measures
- Writing DAX measures for aggregations and calculations.
- Building data models

4. Creating interactive visualizations and reports

- Building visualizations like charts, graphs, and maps.
- Designing reports with multiple pages and layouts.
- Adding interactivity and drill-through functionality to reports.

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5. Designing and publishing dashboards

- Creating dashboards to display key insights and visualizations.
- Adding tiles, images, and other elements to dashboards.
- Publishing and sharing dashboards with others.

6. Implementing data security and sharing options

- Applying security roles and managing user access.
- Sharing reports and dashboards with individuals or groups.
- Configuring row-level security for data restrictions

7. Real-world Projects and Case Studies

- Applying Power BI to real business scenarios
- Working on projects and solving data analysis challenges
- Creating interactive dashboards and reports
- Presentation and documentation of projects

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Tableau

1. Introduction to Tableau and its interface

- Understanding the Tableau environment and its components.
- Exploring the Tableau Desktop interface and workspace.

2. Connecting to various data sources

- Connecting to databases, spreadsheets, and other data sources.
- Importing and blending data from multiple sources.

3. Building interactive dashboards and visualizations

- Creating visualizations like bar charts, line charts, and scatter plots.
- Designing interactive dashboards with multiple worksheets.

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Statistics

Module 1: Introduction to Statistics

- What is statistics?
- Types of statistics
- Descriptive vs. inferential statistics
- Data types (categorical, numerical)
- Populations and samples

Module 2: Data Presentation and Summary

- Data visualization (charts, graphs)
- Measures of central tendency (mean, median, mode)
- Measures of Dispersion (range, variance, standard deviation)
- Quartiles and percentiles
- Univariate, Bivariate and Multivariate Analysis

Module 3: Introduction to Probability

- Basic concepts of probability
- Sample spaces and events
- Conditional probability

Module 4: Discrete Probability Distributions

- Probability mass functions (PMFs)
- Discrete random variables
- Bernoulli and binomial distributions
- Poisson distribution
- Geometric distribution

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Module 5: Continuous Probability Distributions

- Probability density functions (PDFs)
- Continuous random variables
- Uniform distribution
- Exponential distribution
- Normal distribution

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MySQL Syllabus

Module 1: Introduction to Databases and SQL

- Introduction to databases
- What is SQL?
- Relational databases vs. non-relational databases
- SQL as a language for managing and querying data
- Overview of popular database management systems (e.g., MySQL, PostgreSQL, SQL Server)

Module 2: SQL Basics

- SQL data types
- Creating and altering tables
- Inserting data into tables
- Retrieving data with SELECT
- Filtering and sorting data
- Using WHERE clause and comparison operators
- Basic SQL functions (e.g., COUNT, SUM, AVG, MIN, MAX)

Module 3: Advanced Querying

- GROUP BY and HAVING clauses
- Subqueries
- Joins (INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN)
- Set operations (UNION, INTERSECT, EXCEPT)
- Case expressions and conditional logic
- Window functions (e.g., ROW_NUMBER, RANK, DENSE_RANK)

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Module 4: Data Modification

- Updating and deleting data
- Inserting data using subqueries
- Transactions and ACID properties
- Constraints (e.g., PRIMARY KEY, FOREIGN KEY, UNIQUE)
- Handling NULL values
- Importing and exporting data

Module 5: Data Modeling and Design

- Entity-relationship diagrams (ERD)
- Normalization (1NF, 2NF, 3NF)
- Denormalization
- Indexing and performance optimization
- Designing databases with relationships
- Database design best practices

Module 6: Real-world Applications and Case Studies

- Building database-driven applications
- Solving real-world problems with SQL
- Advanced SQL techniques for complex queries
- Performance profiling and optimization
- Best practices for SQL development

Module 7: SQL and Business Intelligence

- Introduction to BI tools
- Connecting SQL databases to BI tools
- Data visualization and reporting
- Building dashboards
- SQL for data analysis

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Python

Module 1: Introduction to Python

- Understanding Python
- Setting up a Python development environment (IDEs, text editors, Python installations)
- Your first Python program (Hello World)
- Python's syntax and indentation
- Variables and data types (int, float, str, bool)
- Basic input and output

Module 2: Control Flow and Conditional Statements

- Conditional statements (if, elif, else)
- Comparison operators
- Logical operators (and, or, not)
- Nested conditions
- Ternary conditional expressions
- Loops (for and while)
- Iterating through sequences (lists, strings)

Module 3: Data Structures

- Lists and their operations
- Tuples and immutability
- Dictionaries and key-value pairs
- Sets and their unique elements
- List comprehensions
- Manipulating data structure
- Slicing and indexing

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Module 4: Functions

- Defining and calling functions
- Function parameters and return values
- Scope and lifetime of variables
- Built-in functions (e.g., len, range)
- Function Arguments
- Lambda Functions
- Functions as First-Class Citizens

Module 5: File Handling

- Opening and Closing Files
- Reading from Files, Writing to Files
- File Modes, Working with Context Managers
- File Object Attributes, File Navigation
- Exception Handling

Module 6: Module and Packages

Creating and using Module and Packages
Types of Modules – Built in Modules and User Defined Modules

Module 7: Mathematical Computing with Numpy

- Arrays and Data Structures, Array Creation , Array Manipulation
- Indexing and Slicing, Broadcasting
- Mathematical Functions, Random Number Generation
- Advanced Features and Performance Optimization

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Module 8: Data Manipulation Using Pandas

- Data Structures: DataFrame, Series
- Data Loading and Storage, Data Cleaning and Preparation
- Data Exploration, Data Analysis, Indexing and Selection
- Visualization, Time Series, Merging and Joining
- Handling Categorical Data, Performance Optimization
- Custom Functions and Data Transformation

Module 9: Data Visualization Using Matplotlib

- Types of Plots – boxplot, barplot, scatterplot etc.
- Customization, Subplots and Figures
- 3D Plotting, Interactive Plots
- Animations

Module 10: Advanced Data Visualization Using Seaborn

- Statistical Data Visualization
- Types of plot - line plot, bar plot, Scatter plot, distplot, kdeplot, jointplot, boxplot etc
- strip plot, factor plot, Pairplot, PairGrid.
- High-Level Plotting Functions
- Color Palettes, Facet Grids, Automatic Data Aggregation
- Regression Plots, Matrix Plots etc.

10 Major Projects

JOB PROFILE AFTER THIS COURSE

Business Intelligence
Analyst

Statistician

Business Intelligence
Developer

Data Modeler

Data Scientist

Data Architect

Big Data Engineer

Machine Learning
Engineer

Machine Learning
Scientist

Data Storyteller

Database
Administrator

Technology
Specialized Roles

CERTIFICATE FORMAT



Google

Reviews

4.7 ★★★★★

★★★★★ GOOGLE RATINGS 4.7



Pam

Local Guide · 17 reviews

★★★★★ 11 months ago

A professional learning centre where they not only train and teach you in detail but also provide complete unconditional support throughout your learning journey with utmost patience, warmth and encouragement no matter what background or field you are from. Every member of the staff is very friendly and supportive but firm at every step which encourages you to enjoy your classes and also ensure you go away with the complete knowledge of what you signed up for.



Sagar Dhalape

Local Guide · 25 reviews · 17 photos

★★★★★ 11 months ago

Irizpro Training Solutions exceeded my expectations! Completing the Data Analytics course was a game-changer for my career. The instructors were knowledgeable, the hands-on projects were valuable, and the support team was excellent. Highly recommend for anyone interested in data analytics!



akshata arjunwadkar

2 reviews

★★★★★ 2 months ago

Institute is good in curriculum, teaching and placement. Provide good support for placement.



Juii Pathak

5 reviews

★★★★★ 3 years ago

Very good, professional and friendly trainers. They make the subject look easy for you which is the most important thing. The training content in Advanced MS Excel and data management is designed in an excellent way. Must do , if you're looking forward to upskill yourself in these fields.

OUR OFFICE PREMISES



COMPANIES WHERE OUR STUDENTS ARE PLACED



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