



Advanced Certification Course in **MICROSOFT POWER BI**

- Practical Training
- Training From Expert Trainer
- Interview Preparation
- Complete Placement Assistance



CERTIFICATIONS OPTIONS AVAILABLE

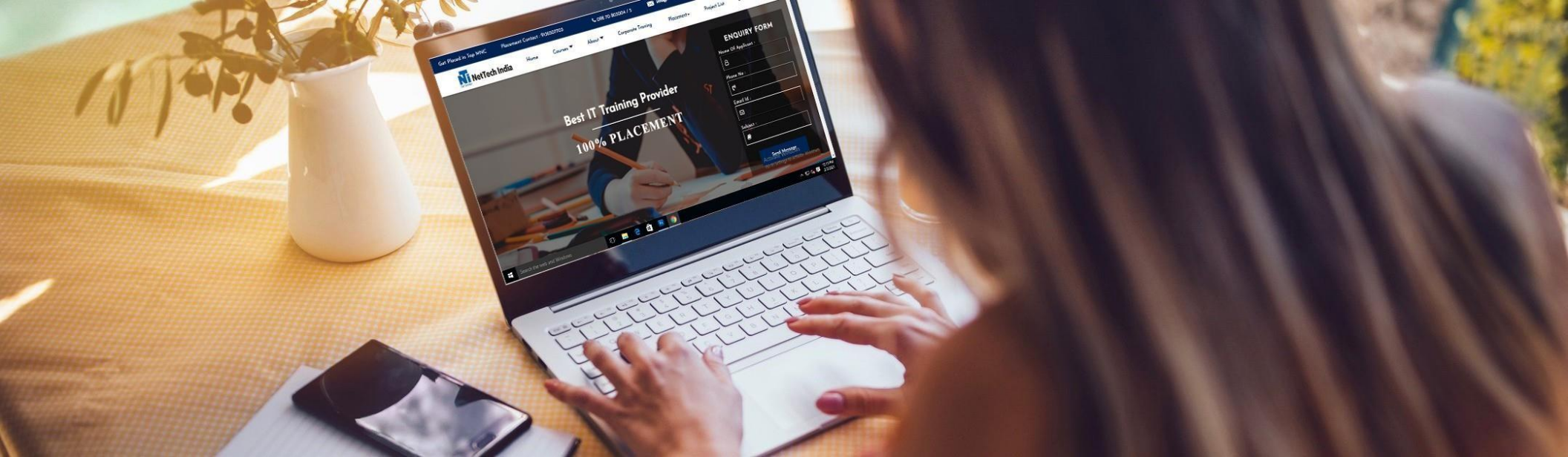


JAINxJAIN
THE LEARNING HUB — DEEMED-TO-BE UNIVERSITY



Microsoft

Govt. Recognised
iINFOBYTE®
— CAREER INSTITUTE —



ABOUT US

Infobyte Computers offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **Infobyte Computers**. We also focus on improving soft skills in communication, leadership, teamwork, external appearance, and attitude, which helps everyone to be professional in all the aspects of their career.



25%

Theory



75%

Practicals

ABOUT

MICROSOFT POWER BI

Welcome to our **Microsoft Power BI** course! This training is designed for professionals who want to harness the power of data visualization and analytics. Our expert instructors will guide you through fundamentals and the advanced techniques Microsoft's powerful business intelligence tool. Whether you're new to Power BI or have some experience, you'll learn how to create stunning visualizations, build interactive dashboards, and drive data-driven decision-making. Through hands-on exercises and real-world examples, you'll unlock valuable insights from your data and take your analysis skills to the next level. Join us on this journey to mastering Microsoft Power BI.



Power

WHY INFOBYTE COMPUTERS?

- Free Complete Placement Training
- Career Growth - Higher Pay & Position
- Encourages Professional Development
- Enhances Professional Credibility.
- Internship Assistance
- Free Demo Class
- Certified Course
- Excellent Training with Qualified Trainer
- 50+ Case Studies
- 10+ Projects



COURSE CONTENT

Power BI Complete Introduction:

- Power BI Introduction
- Data Visualization, Reporting
- Business Intelligence(BI), Traditional BI, Self-Serviced BI
- Cloud Based BI, On Premise BI
- Power BI Products
- Power BI Desktop (Power Query, Power Pivot, Power View)
- Flow of Work in Power BI Desktop
- Power BI Report Server, Power BI Service, Power BI Mobile
- Flow of Work in Power BI / Power BI Architecture
- A Brief History of Power BI

PBI Desktop Installation, PBI Desktop & Service Overview

- Power BI Desktop Installation
- Building Blocks of Power BI
- Datasets, Visualizations, Reports, Dashboards, Tiles
- Power BI Desktop User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Overview of Power Query / Query Editor - Extract, Transform & Load Data
- Connecting to Data Sources, Establish connection to the Excel source
- Importing Data into Power BI or Query Editor
- Transforming the Data using Power Query

- Model the Data using Power Pivot – Relationship View
- Creating New Measures and New Columns using DAX – Data View
- Visualizing the Data using Power View and Power Maps – Report View
- Saving and Publishing the Visuals or Reports
- Logon to Power BI Service
- View the Reports in PBI Service and Share the reports

Module 1: Power Query


Introduction to Power Query – Extract, Transform & Load

- Data Transformation, Benefits of Data Transformation
- Shape or Transform Data using Power Query
- Overview of Power Query / Query Editor, Query Editor User Interface
- The Ribbon (Home, Transform, Add Column, View Tabs)
- The Queries Pane, The Data View / Results Pane, The Query Settings Pane, Formula Bar
- Advanced Editor – Complete ETL Code
- Saving Your Work – Applying ETL Changes – Loading into Power Pivot Model
- Power Query Conceptually

Data types and Filters in Power Query

- Data types, Changing the Data type of a Column
- Filters in Power Query
- Auto Filter / Basic Filtering
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns

Inbuilt Column Transformations

- Remove Columns / Remove Other Columns
- Name / Rename a Column  Reorder Columns or Sort Columns
- Add Column / Custom Column
- Split Columns
- Merge Columns
- PIVOT, UNPIVOT Columns

• Transpose Columns

In built Row

Transformations

- Header Row or Use First Row as Headers
- Keep Top Rows, Keep Bottom Rows
- Keep Range of Rows
- Keep Duplicates, Keep Errors
- Remove Top Rows, Remove Bottom Rows, Remove Alternative Rows
- Remove Duplicates, Remove Blank Rows, Remove Errors
- Group Rows / Group By

Combine Queries (Append Queries & Merge Queries) Append Queries / Union Queries

- Append Queries
- Append Queries as New
- Append 2 or more files individually with different queries
- Appending multiple files of same type from a folder using single query
- Query Options
- Copy Query, Paste Query
- Delete Query, Rename Query
- Enable Load, Include in report Refresh
- Duplicate Query, Reference Query
- Move to Group, Move Up, Move Down

Module 2: Power Pivot

Power BI Data Modeling – Relationship View

- Data Modeling Introduction
- Relationship, Need of Relationship
- Relationship Types / Cardinality in General
- One-to-One, One-to-Many (or Many-to-One), Many-to-Many
- AutoDetect the relationship, Create a new relationship, Edit existing relationships
- Make Relationship Active or Inactive
- Delete a relationship
- Cross filter direction (Single, Both), Assume Referential Integrity

Enhancing the Data Model – DAX

- What is DAX, Calculated Column, Measures
- DAX Table and Column Name Syntax
- Creating Calculated Columns, Creating Measures
- Implicit vs. Explicit Measures
- Calculated Columns vs. Measures
- DAX Syntax & Operators
- DAX Operators
- Types of Operators : Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators

DAX Functions Categories

- Date and Time Functions
- Logical Functions
- Text Functions
- Math & Statistical Functions
- Filter Functions
- Time Intelligence Functions

DAX Date & Time Functions

- YEAR, MONTH, DAY
- WEEKDAY, WEEKNUM
- FORMAT (Text Function) [?](#) Month Name, Weekday Name
- DATE, TODAY, NOW
- HOUR, MINUTE, SECOND, TIME
- DATEDIFF, CALENDAR
- Creating Date Dimension Table

DAX Text Functions

- LEN, CONCATENATE (&)
- LEFT, RIGHT, MID
- UPPER, LOWER
- TRIM, SUBSTITUTE, BLANK

DAX Logical Functions

- IF
- TRUE, FALSE
- NOT, OR, IN, AND
- IFERROR
- SWITCH

DAX Math and Statistical Functions

- INT
- ROUND, ROUNDUP, ROUNDDOWN
- DIVIDE
- EVEN, ODD
- POWER, SIGN
- SQRT, FACT
- SUM, SUMX
- MIN, MINX
- MAX, MAXX
- COUNT, COUNTX
- AVERAGE, AVERAGEX
- COUNTROWS, COUNTBLANK

DAX Filter Functions

- CALCULATE
- ALL
- RELATED

DAX Time Intelligence Functions


- Time Intelligence Introduction
- TOTALMTD, TOTALQTD, TOTALYTD
- PREVIOUSDAY, PREVIOUSMONTH, PREVIOUSQUARTER, PREVIOUSYEAR
- NEXTDAY, NEXTMONTH, NEXTQUARTER, NEXTYEAR
- SAMEPERIODLASTYEAR
- YOY Growth
- MOM Growth

Module 3: Power View

Report View / Power View

- Report View User Interface
- Fields Pane, Visualizations pane, Ribbon, Views, Pages Tab, Canvas
- Visual Interactions
- Interaction Type (Filter, Highlight, None)
- Visual Interactions Default Behavior, Changing the Interaction

Filters in Power View

- Filter Types
-  Visual Level Filters, Page Level Filters, Report Level Filters, Drill Through Filters
- Filter Sub Types
- Basic Filtering, Advanced Filtering, Top N, Relative Date Filtering
- Numeric field filters, Text field filters, Date and Time field Filters

Grouping, Binning & Sorting

- Grouping and Binning Introduction
- Using grouping, Creating Groups on Text Columns
- Using binning, Creating Bins on Number Column and Date Columns
- Sorting Data in Visuals
- Changing the Sort Column, Changing the Sort Order
- Sort using column that is not used in the Visualization

Visualizing Trend Data

- Line and Area Charts
- Create and Format Line Chart, Area Chart, Stacked Area Chart
- Combo Charts
- Create and Format Line and Stacked Column Chart, Line and Clustered Column Chart
- Create and Format Ribbon Chart, Waterfall Chart, Funnel Chart

Visualizing KPI Data

- Create and Format Gauge Visual, KPI Visual
- Create and Format Card Visualization, Multi Row Card

Module 4: Power BI Service

Power BI Service Introduction

- Power BI Service Introduction, Power BI Cloud Architecture
- Creating Power BI Service Account, SIGN IN to Power BI Service Account
- Publishing Reports to the Power BI service, Import / Getting the Report to PBI Service
- My Workspace / App Workspaces Tabs
- DATASETS, WORKBOOKS, REPORTS, DASHBOARDS
- Working with Datasets, Creating Reports in Cloud using Published Datasets
- Power BI Datasets Live Connection using Desktop
- Working with Workbooks, working with Reports, Sharing Reports

Dashboards Development

- ✓ Creating Dashboards
- ✓ Pin Visuals and Pin LIVE Report Pages to Dashboard
- ✓ Advantages of Dashboards
- ✓ Interacting with Dashboards
- ✓ Adding Tiles to Dashboards
- ✓ Web Content, Image, Text Box, Video
- ✓ Formatting Dashboard
- ✓ Sharing Dashboard

Data Gateways

- Introduction to Data Gateways
- How Data Gateways work
- Connect to an on premise Data Source by using a Data Gateway
- Download Data Gateway
- Installing a Data Gateway
- Types of Gateways
- On-premises Data Gateway, On-premises Data Gateway (personal mode)
- Manage Data Gateway
- Add and Remove Administrators
- Add Data Source, Add or Remove Users to a Data Source
- Refresh On Premise Data
- Configuring Automatic Refresh using Schedules

Collaboration in Power BI using App Workspace

- Introduction to App Workspaces
- Create an App Workspace
- Add Members to App Workspace to Collaborate
- App Workspace Access
- Admin, Member, Contributor

Row Level Security in Power BI

- Introduction to Row Level Security
- Row Level Security (RLS) with DAX
- Manage Roles, Creating Roles, Testing Roles
- Adding Members to Roles in Power BI Service
- Dynamic Row Level Security
- Creating Users Table and Adding to the Model
- Capturing users using Username () or UserPrincipalName ()
- DAX Functions

ADD ON

- Real-time Project Explanation
- Resume Preparation
- Interview Questions Discussions

WHO CAN LEARN ?

- Anyone who wants to build a career in Data Science.
- Anyone who wish to gain knowledge about Programming.
- Students who are currently in college or university



CAREER

OPPORTUNITIES

- Power BI Consultants
- Power BI Data Analyst
- Power BI Developer
- Power BI Software Engineer
- Power BI Analyst
- Senior Software Engineer
- Senior Business Intelligence (BI) Analyst
- Power BI Business Analyst (IT)

And Many More...



OUR RECRUITERS



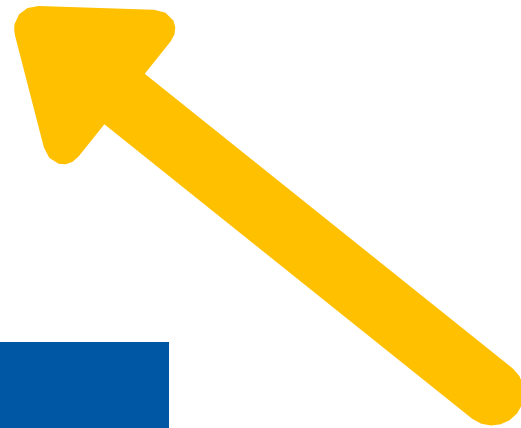
and Many

PROCESS FOR SUCCESS

GET PLACED

GET TRAINED

EN
ROLL



FACILITIES OFFERED

- Practical Training on Live Projects
- Complete Placement Assistance
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training

