

POWER BI SYLLABUS COPY

Engineered for skill enhancement.



PROGRAM HIGHLIGHTS

Accredited Certificates :

- ✓ Program approved ISO Certification

Internships :

- ✓ Industry-relevant opportunities provided-

Placement Assistance :

- ✓ Career guidance from industry experts-

Basic to Advanced Level Training :

- ✓ Learn from experienced AI professionals .

Live & Recorded Lectures :

- ✓ Flexible learning at your convenience .

Real-Time Projects :

- ✓ Hands-on minor & major projects



ABOUT US

- **OUR MISSION :**

Nxt Sync is a pioneering EdTech company committed to bridging the gap between theoretical learning and practical application. Our mission is to empower students with cutting-edge AI skills that enhance employability and prepare them for a tech-driven future.

- **OUR VISION--UPSKILL:** Empowering minds for the future.
- **INNOVATE:** Fostering creativity and breakthroughs .
- **EXCEL:** Preparing industry-ready professionals.

WHY POWER BI?

- High Demand in Data Analytics & Business Intelligence
- Data Visualization for Informed Decision-Making
- Integration with Microsoft & Cloud Platforms
- Career Opportunities in Data Analysis & Business Insights
- Automation & AI Integration for Predictive Analytics
- Cost-Effective Business Intelligence Solutions



LEARNING PATH

1. Introduction to Power BI
2. Power Query & Data Transformation
3. Data Modeling & DAX (Data Analysis Expressions)
4. Data Visualization & Dashboard Design
5. Power BI Service & Cloud Integration
6. Power BI Administration & Security
7. Advanced Power BI Features & AI Integration
8. Industry-Specific Applications of Power BI
9. Capstone Projects & Research



DETAILED MODULE BREAKDOWN

Module 1: Introduction to Power BI

- Fundamentals of Business Intelligence
- Overview of Power BI & Its Components
- Installation & Setup of Power BI Desktop
- Data Sources & Connectivity

Module 2: Power Query & Data Transformation

- Importing & Transforming Data
- Data Cleaning & Shaping Techniques
- M Language Basics
- Handling Errors & Performance Optimization



Module 3: Data Modeling & DAX (Data Analysis Expressions)

- Understanding Data Models & Relationships
- Introduction to DAX Functions
- Measures vs. Calculated Columns
- Advanced DAX Functions & Performance Optimization

Module 4: Data Visualization & Dashboard Design

- Creating Interactive Reports & Dashboards
- Chart Selection & Best Practices
- Custom Visuals & Themes
- Storytelling with Data

Module 5: Power BI Service & Cloud Integration

- Publishing Reports to Power BI Service
- Sharing & Collaboration Features
- Scheduled Refresh & Data Gateway
- Integration with Microsoft 365 & Azure



Module 6: Power BI Administration & Security

- User Roles & Permissions
- Data Security & Compliance
- Row-Level Security (RLS)
- Deployment & Governance Best Practices

Module 7: Advanced Power BI Features & AI Integration

- AI & Machine Learning in Power BI
- Natural Language Processing with Q&A
- Forecasting & Predictive Analytics
- Python & R Integration in Power BI

Module 8: Industry Applications & Case Studies

- Power BI in Financial Analytics
- Sales & Marketing Analytics
- Healthcare & Supply Chain Analytics
- Case Studies from Leading Companies



Module 9: Capstone Projects & Industry Research

- Hands-on Real-Time Power BI Projects
- Industry Collaboration & Research-Based Projects
- Power BI Portfolio Building
- Dashboard Development & Performance Analysis



ASSIGNMENT'S & ASSESSMENTS

- Weekly hands-on assignments
- Mid-term Power BI mini-projects
- Final capstone Power BI project
- Live presentations & discussions

TOOLS & FRAMEWORKS USED

- **Data Extraction & Transformation:** Power Query, M Language
- **Data Modeling & Analysis:** Power Pivot, DAX
- **Visualization & Dashboarding:** Power BI Desktop, Power BI Service
- **Cloud & Integration:** Microsoft Azure, SQL Server, Excel, SharePoint
- **Automation & AI:** Python, R, AI Visuals



RECOMMENDED READING

Power BI & Data Analytics:

- "Mastering Power BI" - Brett Powell
- "Power BI for Dummies" - Michael Alexander
- "DAX Patterns" - Marco Russo & Alberto Ferrari
- "Data Storytelling with Power BI" - Adam Aspin



WHY CHOOSE NXTSYNC?

- ✓ Industry-Aligned Power BI Curriculum
- ✓ Hands-on Real-World Projects
- ✓ Expert Mentorship & Career Guidance
- ✓ Flexible Learning Schedule
- ✓ ISO-Certified Power BI Training Program

Start Your SQL Learning Journey with NxtSync Today!



THANK YOU

