

Diploma in **BIG DATA ANALYTICS**

Batch 13

Shape the **Future** with **Data**, start your journey with us



Starting: August 2025



4 - Months Diploma Program



Rs. 230,000/- (+5% SST)



Saturday: 5:00 PM - 9:00 PM
Sunday: 9:30 AM - 2:30 PM

cict.iba.edu.pk



021 38104700 EXT (1148)



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COURSE OVERVIEW

The fusion of big data, machine learning, and technologies like cloud services, IoT, and mobile devices has opened significant business opportunities. Analytics now offers a competitive edge, but leaders must overcome challenges in technology, talent, and cultural integration to truly benefit. This intensive Four-Month Diploma equips you with the skills and confidence to leverage data for organizational growth. Learn practical applications through lectures, case studies, and discussions to enhance decision-making in your department or organization.

FUTURE BENEFITS

- Equip students for large and complex data analysis using tools like Hadoop, Spark, and NoSQL.
- Teach data modeling, statistical analysis, and machine learning for insights.
- Train in data visualization techniques using charts, graphs, and maps.
- Instill best practices in data governance, security, privacy, and quality control.
- Practical experience via hands-on projects and industry-based case studies.
- Prepare students for careers in big data analytics, data science, business intelligence, and data engineering.

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COURSE TOPICS

Python Foundations for Big Data Analytics

- Python setup and Jupyter Notebook
- Python's history and basics
- Numerical data analysis and arrays
- Simplified numerical concepts for ML

Big Data Wrangling

- Evolution of Big Data Analytics
- EDA and data preparation
- MetaData in Data Lake Management

Big Data Management with NoSQL

- NoSQL databases and data silos
- MongoDB, Redis, Cassandra, Neo4J
- NoSQL case studies in industries

Machine Learning for Big Data

- ML basics and algorithms
- Use cases in small and big data
- Hands-on with algorithms

Infrastructure for Real-Time Big Data Analytics

- Technologies for real-time analytics
- Lambda, Kappa, Spark, Storm, Kafka
- Real-time analytics use cases and value
- Developing in-house infrastructure

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