

Data Analytics

Duration : 40 Hours

Exam Marks : 50

Objectives:

This Subject introduces the concept of Business Analysis and Optimization. It gives an glimpse of the reference architecture in Business Analytics.

Introduces the concept of Decision Support Systems and provides knowledge of a Data Warehouse, multi-dimensional analysis. The subject provides an understanding of Business Intelligence concepts, applications, design elements.

The subject also provides an insight into Data Mining, processes and challenges of building Data Mining Capability and various models of Data Mining.

Knowledge of Dashboards, designs of dashboards, reports and metrics is provided. Learning of the concept of Big Data, its characteristics and structure and knowledge on the architecture, usage, benefits and risks of Big Data analysis is provided in this subject.

Course Outcomes: After completing this subject, the student should be able to

Identify basics of analytics and business optimization, Understand the use of reference architecture in business analytics

Define decision support science and Explain the concept of data warehouse

Understand the terms and concepts of Business Intelligence

Define Data Mining, describe steps to build the data mining.

Gain knowledge of Dashboards, Reports, Metrics

Understand the process of analysis using Dashboards and Reports. and learn how to build Dashboards and Reports

Gain a knowledge of Big Data, its characteristics and structure. Learn Exploring Big Data, Filtering BigData , Adoption Architecture, Benefits & Barriers and Trends for Big Data Analytics.

Module I:	6Hours
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Business Analytics and Optimization

Module II:	6Hours
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Data Warehouse

Module III:	6Hours
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Business Intelligence

Module IV:	6Hours
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Data Mining

Module V:	8Hours
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Dashboard & Report Designing

Module VI:	8Hours
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Big Data Analytics