



P.B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE

Siddhartha Nagar, Vijayawada – 520 010

Autonomous - ISO 9001 - 2015 Certified

POWER BI

Syllabus		
Unit	Learning Units	Lecture Hours
I	Introduction Power Pivot Introduction of Pivot - Use Power Pivot - xVelocity in-memory analytics engine - Exploring the Data Model Management interface - Analyzing data using a pivot table	6
II	Data Operations Working with Data - Import data from relational databases - Import data from text files - Import data from a data feed - Import data from an OLAP cube	6
III	Power Pivot & Data Operations Data Munging - Discover and import data from various sources - Cleanse data - Merge, shape, and filter data - Group and aggregate data - Insert calculated columns.	6
IV	Power Pivot model Creating data Model - Explain what a data model is - Create relationships between tables in the model - Create and use a star schema - Understand when and how to denormalize the data - Create and use linked tables	6
V	Power BI Power BI environment - Getting, cleaning, and shaping data - Creating table relationships - Adding calculations and measures - Incorporating time-based analysis	6

Prescribed Text Books			
	Author	Title	Publisher
1	Powell Brett	Power BI 2021 - Volume 3 (English, Paperback, F Silva Roger)	ISBN: 9798711316824
2	F Silva Roger	Mastering Microsoft Power BI	Publisher: Packt Publishing Limited ISBN: 9781788297233, 9781788297233
3	Hutchinson Jeff	Microsoft Power BI Desktop - Creating Visual Reports	ISBN: 9781081588908 Independently Published

Reference Text Book			
	Author	Title	Publisher
1	Dan Clark	Beginning Power BI: A Practical Guide to Self-Service Data Analytics with Excel 2016 and Power BI Desktop Second Edition	Apress

Course Delivery method : Face-to-face

Course has focus on : Foundation

Websites of Interest :

1. https://books.google.co.in/books?id=Da8-DgAAQBAJ&newbks=0&printsec=frontcover&hl=en&source=newbks_fb&redir_esc=y#v=onepage&q&f=false

Co-curricular Activities: (Case Studies)

List of Experiments

1. Write the Procedure for preparing a Pivot in Excel and prepare a Dashboard using sample marketing data.
 - a. Offline Data and online data
 - b. Online to Online using Google Forms
2. Installation of Power BI and its procedure
3. Explain the procedure in importing various format files in Power BI, write its observations
4. Power BI Data Models (Schemas in Power BI)

5. How to edit data in power BI when data is Exported use few data cleaning techniques (Munging)
6. Advance Data Cleaning techniques, Data Munging and Data collection and collaboration techniques.
7. Write the procedure in building an association (Power Query) identify various schemas in Power BI
8. Data Visualization (charts for a sample data) constructions and analysis
9. Step in preparing a dashboard for the organization
10. Constructing Quick Measures and Dax formulas