Value Added Course

Session-IV

Organized by

Mrs. M. Neeharika

Assistant Professor

Department of AI & DS

J. B. Institute of Engineering and Technology

For III Year Students of

AI & DS, CSE (DS) Departments

JB INSTITUTE OF ENGINEERING & TECHNOLOGY
UGC Autonomous
Accredited by NAAC & NBA, Approved by AICTE & Permanently Affiliated to JNTUH
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCES

CIRCULAR

Date: 12– 11 – 2025

The Department of AI&DS and CSE (DS), JBIET is conducting a Session –IV of **Value-Added Course on "Power BI"** on **14th November 2025 (Friday),** a 2 hour session from 2:10 to 4:10 in **Lab No. 101, AI&DS Block**.

The session is being conducted by **Ms. M. Neeharika**, who has hands-on training and insights into Power BI and its real-world applications in data analysis and visualization. All **III Year** students of **AI&DS and CSE (DS),** who are interested are requested to participate actively in the course and gain valuable knowledge from the session.

Dr. Roshan Kavuri
HOD AI&DS,
JBIET, Hyderabad

Value Added Course Power BI
Report on Session -IV

Date: 14-11-2025

Module Number: 4
Title of the Module: Advanced Data Analysis in Power BI
Key Topics Covered:

- Filter
- Slicer
- Drill Through
- Introduction to DAX Queries
- Basics of Measure and New Column

Resource Person(s):

- Mrs.Marisetti Neeharika

Duration: 2 Hours
Mode of Delivery: Face to Face
Target Audience: III Year students of Artificial Intelligence & Data Science (AI&DS) and Computer Science Engineering (Data Science)
Number of Participants: 2
Venue: D101 Lab – Data Science Block – JBIET

Objectives of the Course Module:

- To introduce advanced data analysis techniques in Power BI, focusing on the effective use of filters and slicers for data exploration.
- To explain the concept of "Drill Through" functionality for detailed data exploration and analysis.
- To introduce participants to DAX (Data Analysis Expressions) queries for creating dynamic and powerful calculations.
- To provide a fundamental understanding of measures and new columns in Power BI for customized data analysis.

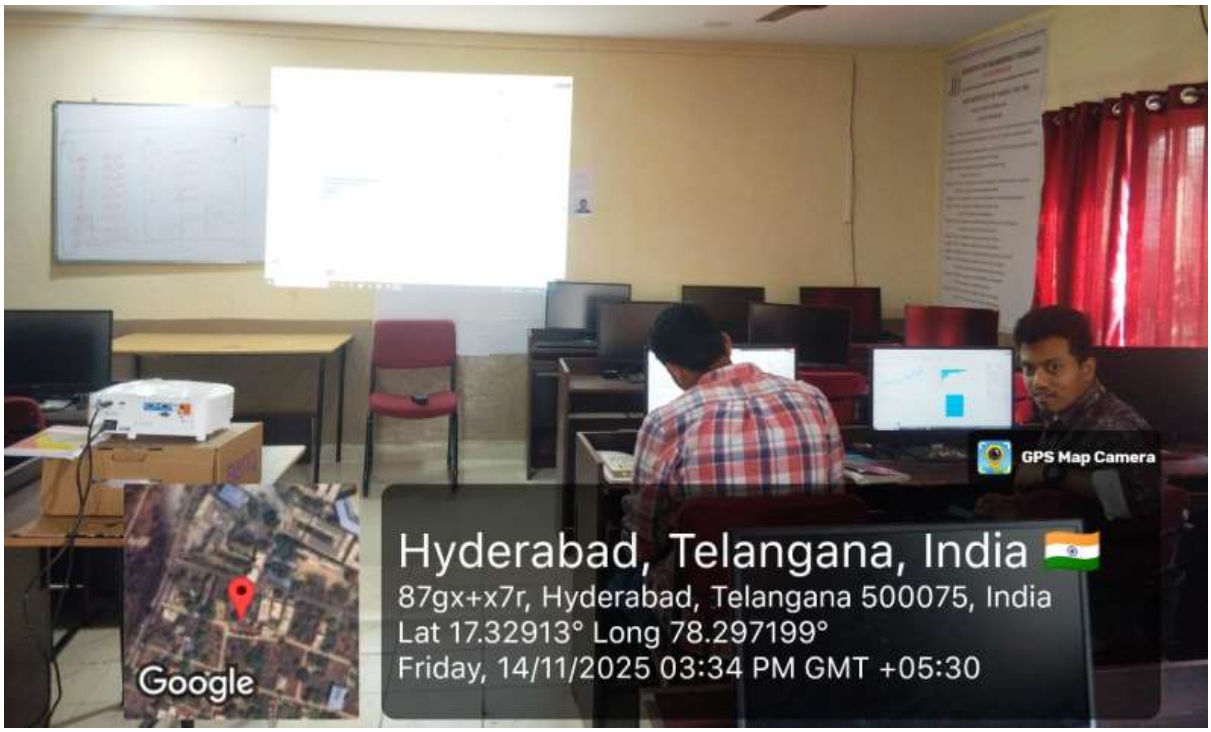
Expected Learning Outcomes of the Module:

By the end of the session, participants will be able to:

1. Apply filters and slicers effectively to control data views and improve data analysis.
2. Use "Drill Through" functionality to navigate to detailed reports for deeper insights.

3. Understand the basics of DAX queries and create simple DAX formulas to perform dynamic calculations.
4. Create new measures and columns for advanced data manipulation, enabling customized reports and visualizations.

Gallery



Summary:

Session-4 of the Power BI training expanded on the foundational concepts from earlier sessions and delved into advanced techniques for data analysis. The session was designed to enhance participants' ability to interact with data more dynamically and perform complex analyses using Power BI's advanced features.

The session began with an introduction to filters and slicers, two powerful tools for narrowing down datasets and enabling user-driven exploration of data. Participants learned how to apply various types of filters, from basic filtering to more advanced slicers, to manipulate the data displayed in visualizations.

The concept of "Drill Through" was covered next, teaching participants how to navigate through detailed views of data to gain deeper insights, especially for large and complex datasets. This feature was demonstrated with practical examples, emphasizing its usefulness for focused analysis.

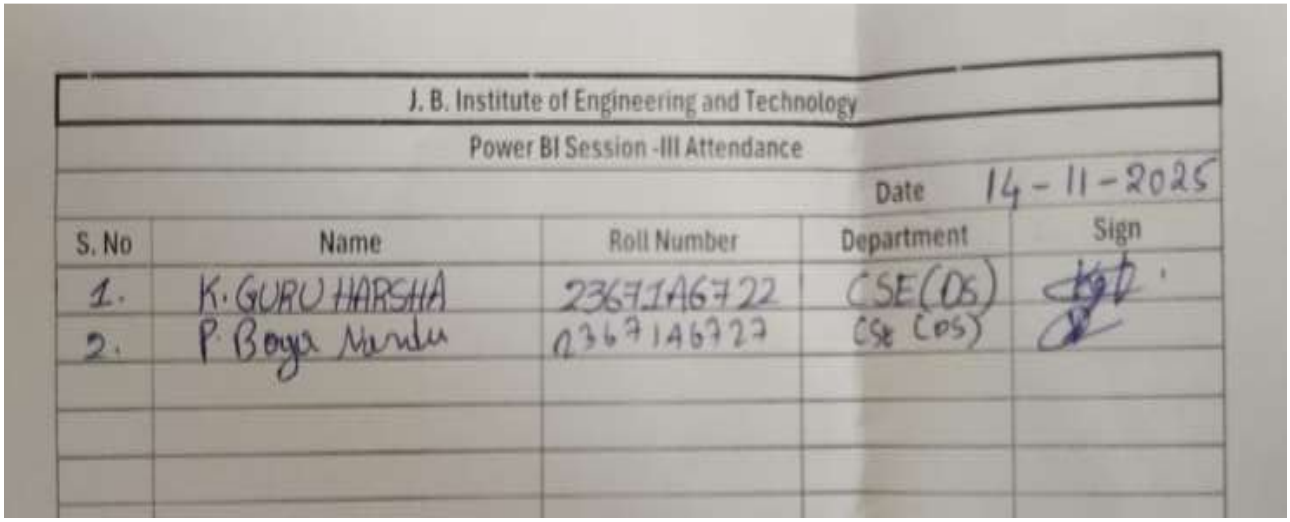
A significant portion of the session was dedicated to an introduction to DAX (Data Analysis Expressions), the formula language in Power BI used for creating custom calculations. Participants were introduced to basic DAX queries and how they can be applied to create dynamic metrics in reports.

Finally, the session explored the difference between measures and new columns in Power BI. The participants learned the fundamentals of creating measures for real-time, context-dependent calculations and new columns for row-level data transformations.

The session was highly interactive, with hands-on demonstrations and exercises to reinforce the concepts. The feedback from the participants was overwhelmingly positive, as they appreciated the clear, step-by-step explanations and the practical, real-world applications of the tools covered.

Signature of the HOD

Attendance List



J. B. Institute of Engineering and Technology

Power BI Session -III Attendance

Date 14-11-2025

S. No	Name	Roll Number	Department	Sign
1.	K. GURU HARSHA	2367IA6722	CSE(DS)	
2.	P Boya Naidu	2367IA6727	CSE (DS)	