

## Information Science and Engineering

### Report On Microsoft Power BI Data Analyst Associate FDP

**Dates:** 21st – 25th July 2025

**Organized by:** Department of Information Science & Engineering, Jawaharlal Nehru New College of Engineering (JNNCE), Shivamogga in collaboration with ICT Academy

**Total Participants:** 28 Faculty Members from Various Institutions

#### Inauguration Ceremony – 21st July 2025 (Monday)

The FDP commenced with an inaugural function held at **Kalpna Chawla Seminar Hall**, Department of ISE, JNNCE. The event began at **9:45 AM** and witnessed the gracious presence of esteemed dignitaries:

- **Chief Guest:** *Mr. Gopinath S*, Senior Technical Trainer, ICT Academy
- **Guest of Honour:** *Sri. S. N. Nagaraja*, Secretary, NES, Shivamogga
- **Presiding Officer:** *Dr. Y. Vijaya Kumar*, Principal, JNNCE
- **Special Invitee:** *Dr. S. V. Sathyanarayana*, Dean (Research), JNNCE

The inaugural address emphasized the growing significance of data analytics in modern academia and industry. The Chief Guest introduced the goals of the program and highlighted how Microsoft Power BI can bridge the gap between data and decision-making.

The event concluded with a vote of thanks, followed by a technical orientation session.



**Figure 1: Inauguration ceremony at KC Seminar hall**



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**Day 1 – 21st July 2025**

**Theme:** *Introduction to Data Analytics and Microsoft Power BI Ecosystem*

**Trainer:** *Mr. Gopinath S, ICT Academy*

The day laid the foundation for Power BI, introducing its architecture, components, and end-user applications. Topics covered included:

- Overview of the Microsoft Data Analyst role
- Getting started with Power BI Desktop
- Connecting to data sources (Excel, CSV, SQL Server, Web, etc.)
- Navigating the Power BI interface
- Participants gained hands-on exposure to basic data loading and visualization techniques.



**Figure 2: Day 1 – Getting started with Power BI Desktop application**

**Day 2 – 22nd July 2025**

**Theme:** *Data Preparation and Transformation using Power Query*

This day focused on the data wrangling phase:

- Importing large and complex datasets
- Cleaning, shaping, and transforming data using Power Query Editor
- Handling missing data, merging and appending queries
- Introduction to the M language
- Participants actively engaged in transforming raw, unstructured data into structured formats suitable for analysis.



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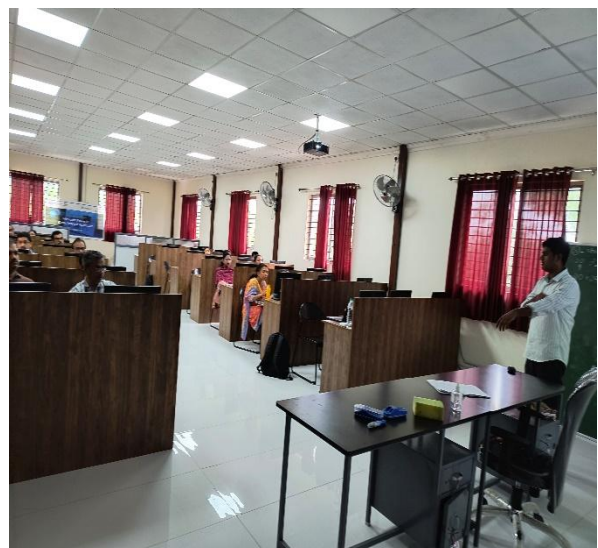
**Figure 3: Load Data, Clean Data and Transform Data**

**Day 3 – 23rd July 2025**

**Theme:** *Data Modeling and DAX Fundamentals*

An essential step in the BI process, data modeling topics included:

- Creating data relationships and normalization
  - Calculated columns, measures, and quick measures
  - Introduction to DAX (Data Analysis Expressions)
  - Using DAX for time intelligence and KPI calculations
- Participants practiced building semantic models and explored real-time scenarios to apply business logic.



**Figure 4: Modelling the data and DAX operations**

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**Day 4 – 24th July 2025**

**Theme:** *Data Visualization, Report Design, and UX Principles*

This session enabled participants to:

- Create rich, interactive dashboards
- Use charts, slicers, cards, maps, tables, and custom visuals
- Add tooltips, bookmarks, and drill-through functionality
- Apply design principles for readability and impact
- Towards the end of the day, participants were divided into groups to create mini-projects and share their dashboards.



**Figure 5: Visualization of Data and Designing the reports**

**Day 5 – 25th July 2025**

**Theme:** *Report Publishing, Data Security & Workspace Management*

The final session focused on enterprise-level deployment and collaboration:

- Publishing reports to Power BI Service
- Configuring and managing datasets, refresh schedules
- Role-based access control and sharing dashboards securely
- Using workspaces and Power BI apps for large teams
- The trainer also discussed **certification preparation tips**, industry use cases, and answered queries during a Q&A session.



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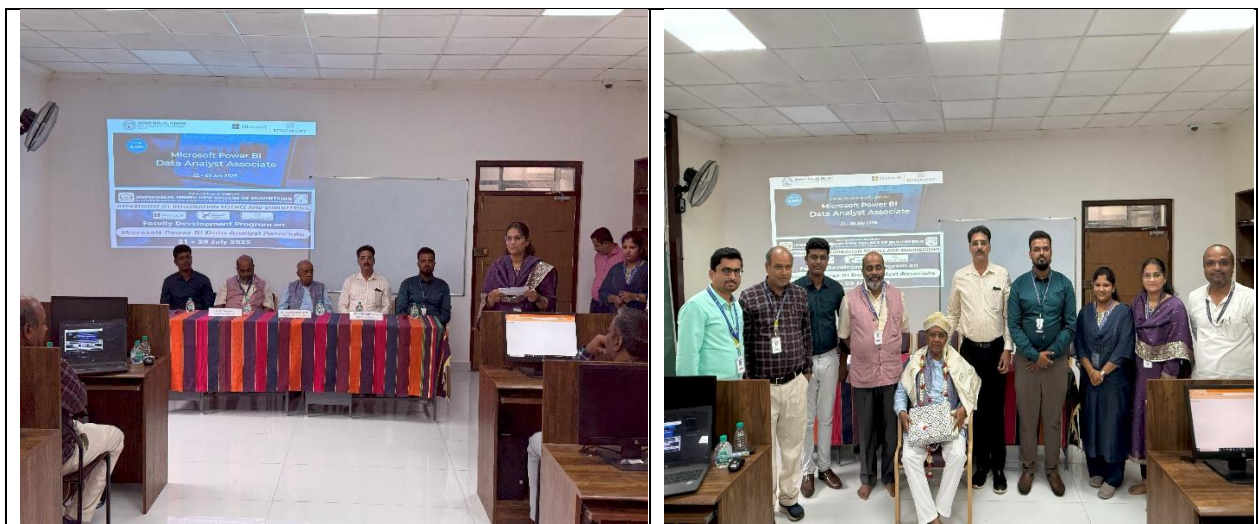


**Figure 6: Publishing the report and Data Security with workspace management**

### Valedictory Ceremony – 25th July 2025 (Evening)

The FDP concluded with a formal valedictory ceremony.

- The organizing team appreciated the resource person, **Mr. Gopinath S**, for his exceptional delivery and in-depth expertise.
- **Mr. T. R. Ashwath Narayana Shetty**, Director, NES, was felicitated for his steadfast support, coordination with ICT, and encouragement throughout the event.
- All 28 participants were awarded **certificates of participation**, having met the attendance and engagement criteria.



**Figure 7: Valedictory Ceremony at ISE Lab-4**



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### Outcome & Feedback

The FDP enabled faculty to gain hands-on expertise in Microsoft Power BI, covering data preparation, modelling, and visualization. Participants appreciated the practical approach and clarity of the sessions delivered by Mr. Gopinath S. Feedback was overwhelmingly positive, with requests for advanced-level workshops in the future.

### Acknowledgement

We sincerely thank NES Management, Placement Department – JNNCE, ICT Academy, Resource person Mr. Gopinath S, and our Principal and HOD for their support. Special appreciation to Mr. T. R. Ashwath Narayana Shetty, Director, NES for facilitating coordination. Thanks to all coordinators and participants for making the FDP a grand success.

### Conclusion

The five-day FDP proved to be an enriching and insightful experience for faculty members. It provided in-depth exposure to **Microsoft Power BI** tools and equipped participants with real-world skills in data analysis, visualization, and reporting. The event witnessed active interaction, enthusiastic learning, and an environment of collaboration and innovation. The Department of ISE, JNNCE, takes pride in having hosted a technically robust and well-appreciated training program in partnership with ICT Academy.

### Coordinators

Mr. Sharath Kumar S R

Dr. Chethan G S

Mrs. Manasa S M

Mrs. Thara K L

### HOD, ISE