NARSIMHA REDDY ENGINEERING COLLEGE

An Autonomous Institution| Affiliated to JNTUH | Approved by AICTE

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your roots to success.

Estd.2007

Four Days Faculty Readiness Program On

"POWER BI - Data Visualization"

on

03-06-2026 to 06-06-2026

your roots to success...

Organized By

Department of CSE(AI & ML)

NARSIMHA REDDY ENGINEERING COLLEGE
(Autonomous)

HYDERABAD-500100

Title of The Event	**"POWER BI - Data Visualization"**
Resource Person	**Prof. GVV Prasad** HOD-AI&ML
Event Convenor Details	**Dr. N. Rajasekhar** DEAN- EXTERNAL AFFAIRS, NRCM
Program Type*	FRP
Start Date : **End Date :** **Duration of the activity** :	10:00 AM to 03:30 PM
Mode of Session	Offline
Number of Faculty Participants *	09
Objectives of the FRP	**Objectives of the FRP on "POWER BI - Data Visualization"** • To strengthen the fundamental concepts of data analytics, business intelligence, and data-driven decision-making among faculty members. • To enhance understanding of Power BI components, including Power BI Desktop, Power BI Service, data connectivity, and report publishing. • To develop analytical thinking and data interpretation skills required for transforming raw data into meaningful insights. • To improve proficiency in data preparation, transformation, and modeling using Power Query and Data Modeling techniques. • To provide hands-on experience in creating interactive dashboards, reports, visualizations, and KPI monitoring solutions using Power BI. • To enable faculty members to effectively teach Business Intelligence and Data Analytics concepts through practical demonstrations and real-world datasets. • To enhance knowledge of data visualization principles, dashboard design techniques, and storytelling with data. • To familiarize participants with advanced Power BI features such as DAX (Data Analysis Expressions), calculated columns, measures, and custom visualizations. • To bridge the gap between theoretical concepts and practical implementation through case studies, hands-on exercises, and project-based learning. • To improve faculty confidence in conducting analytics laboratories, guiding student projects, and mentoring data-driven applications. • To encourage innovative teaching methodologies using interactive dashboards, live analytics, and industry-relevant business scenarios. • To promote continuous professional development and

	technology upgradation in the fields of Business Intelligence and Data Analytics. • To prepare faculty members to train students in industry-oriented data analysis, reporting, and decision-support systems. • To create a collaborative learning environment where faculty members share knowledge, experiences, best practices, and innovative applications of Power BI across various domains.

Outcomes of FRP/ Benefit in terms of learning/Skill/Knowledge obtained	**Outcomes of the FRP on "POWER BI - Data Visualization"**
	➢ Understand the concepts of Business Intelligence (BI), data analytics, and data-driven decision-making. ➢ Import, transform, and manage data from multiple sources using Power BI. ➢ Apply data cleaning and preprocessing techniques using Power Query Editor. ➢ Design and develop interactive dashboards and reports using Power BI Desktop. ➢ Create effective visualizations such as charts, graphs, maps, KPIs, and scorecards for data analysis. ➢ Develop data models by establishing relationships among datasets and implementing best practices. ➢ Utilize DAX (Data Analysis Expressions) to create calculated columns, measures, and advanced analytics solutions. ➢ Analyze business data and derive meaningful insights to support strategic decision-making. ➢ Publish, share, and collaborate on reports and dashboards using Power BI Service. ➢ Implement real-time and dynamic reporting solutions for organizational and academic applications. ➢ Integrate industry-oriented case studies and practical datasets into teaching and learning activities. ➢ Conduct hands-on laboratory sessions and guide students in data visualization and analytics projects. ➢ Apply innovative pedagogical approaches using interactive dashboards and data storytelling techniques. ➢ Enhance professional competency in modern Business Intelligence tools and emerging analytics technologies. ➢ Promote a culture of data-driven learning, collaborative knowledge sharing, and continuous skill development among faculty members.

Brief Report:	A One-week FRP on **"POWER BI - Data Visualization"** was successfully conducted at **NARSIMHA REDDY ENGINEERING COLLEGE (Autonomous),** Hyderabad on 3rd to 6th June 2026. The workshop was organized by the CSE(AI&ML) department under the guidance of Dr. N. Rajasekhar. **1. Introduction** A Four-Day Faculty Readiness Program (FRP) on "POWER BI – Data Visualization" was successfully conducted at Narsimha Reddy Engineering College (Autonomous), Hyderabad, from 3rd to 6th June 2026. The workshop was organized by the Department of Computer Science and Engineering (AI & ML) under the guidance of Dr. N. Rajasekhar. The program was designed to enhance the knowledge and practical skills of faculty members in the field of Business Intelligence (BI), Data Analytics, and Data Visualization using Microsoft Power BI. It aimed to equip participants with modern data analysis techniques and effective visualization strategies for academic and industry-oriented applications. **2. Program Details** **Program Title:** Faculty Readiness Program (FRP) on **POWER BI - Data Visualization** **Duration: Four Days** (from 3rd to 6th June 2026) **Resource Person: Prof. GVV Prasad** **Department:** CSE (AI&ML) **Venue:** Tech Park **Participants:** Faculty Members from various departments **3. Objectives of the Program** The primary objective of the FRP was to provide faculty members with comprehensive knowledge of data visualization and business intelligence concepts using Power BI. The program focused on developing skills in data collection, transformation, modeling, analysis, and dashboard creation. **4. Activities Conducted** During the program, a series of expert lectures, demonstrations, hands-on sessions, case studies, and practical exercises were conducted. Faculty members actively participated in dashboard development activities and data analysis exercises. The sessions covered: • Introduction to Business Intelligence and Power BI • Data Importing and Data Transformation using Power Query • Data Modeling and Relationship Management • Creating Interactive Reports and Dashboards • Data Visualization Techniques and Best Practices • DAX Fundamentals and Advanced Calculations • KPI Development and Business Analytics • Dashboard Publishing and Sharing through Power BI Service • Real-Time Industry Use Cases and Case Studies • Data Storytelling and Decision-Making using Visual Analytics

5. Outcomes of the Program

The FRP enabled participants to

- Gain a strong understanding of Business Intelligence and Data Visualization concepts.
- Develop interactive and insightful dashboards using Power BI.
- Perform data transformation, cleaning, and modeling efficiently.
- Create advanced reports using DAX calculations and KPIs.
- Analyze datasets and derive meaningful insights for decision-making.
- Integrate real-world data analytics examples into classroom teaching.
- Improve confidence in handling analytics laboratories and student projects.
- Adopt innovative and industry-relevant teaching methodologies.

6. Participant Performance

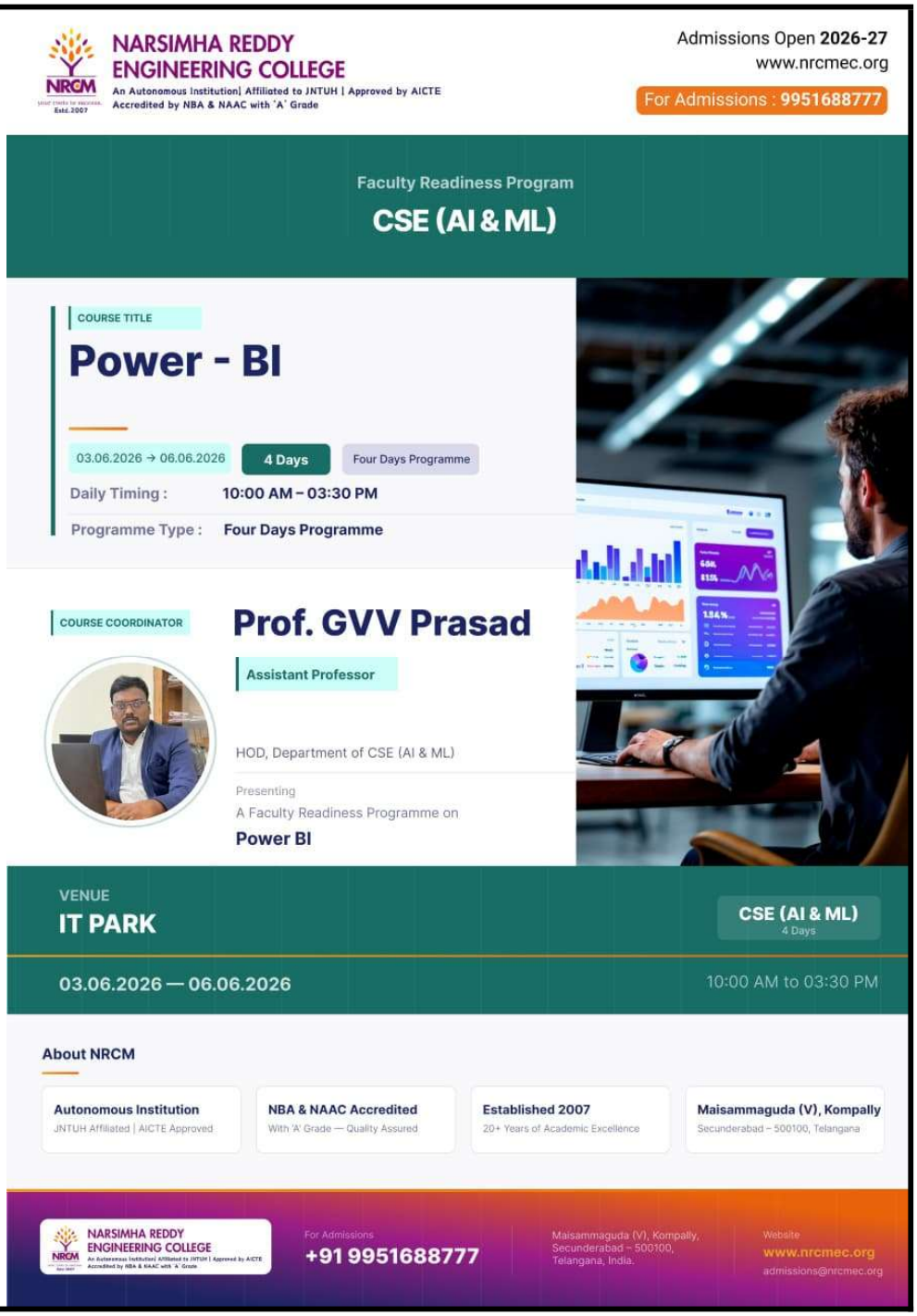
The participants demonstrated excellent enthusiasm, dedication, and active involvement throughout the program. Hands-on assignments, dashboard development exercises, and practical assessments enabled faculty members to evaluate and strengthen their analytical and visualization skills.

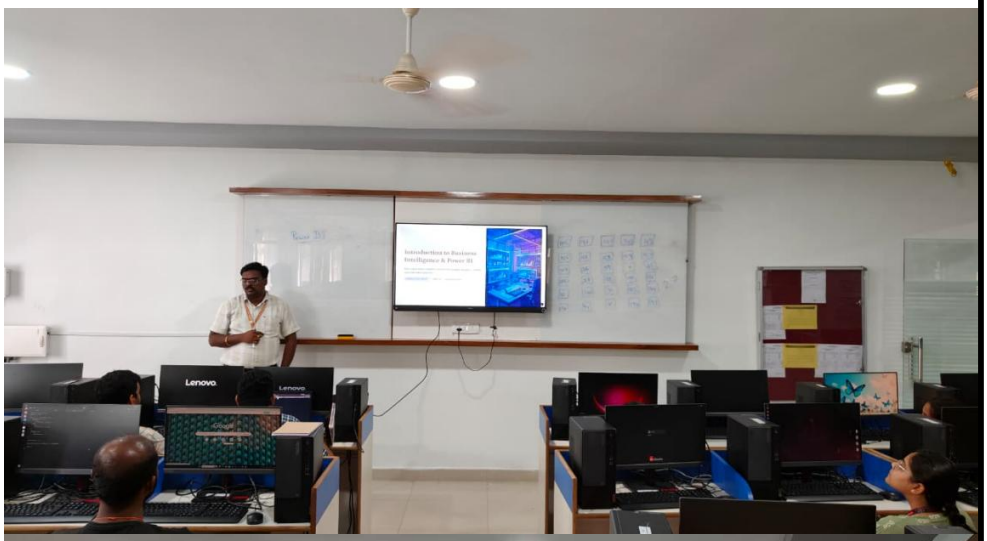
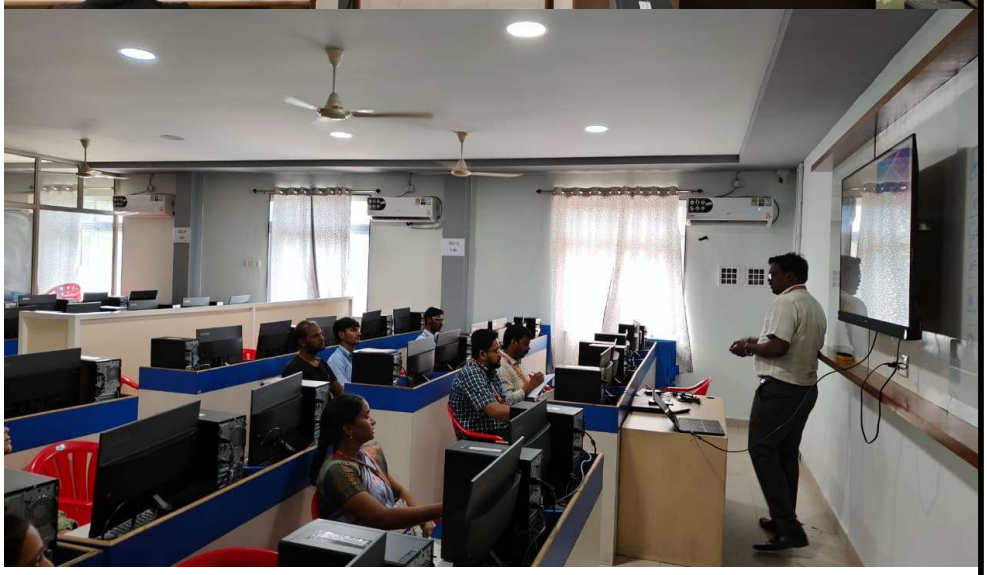
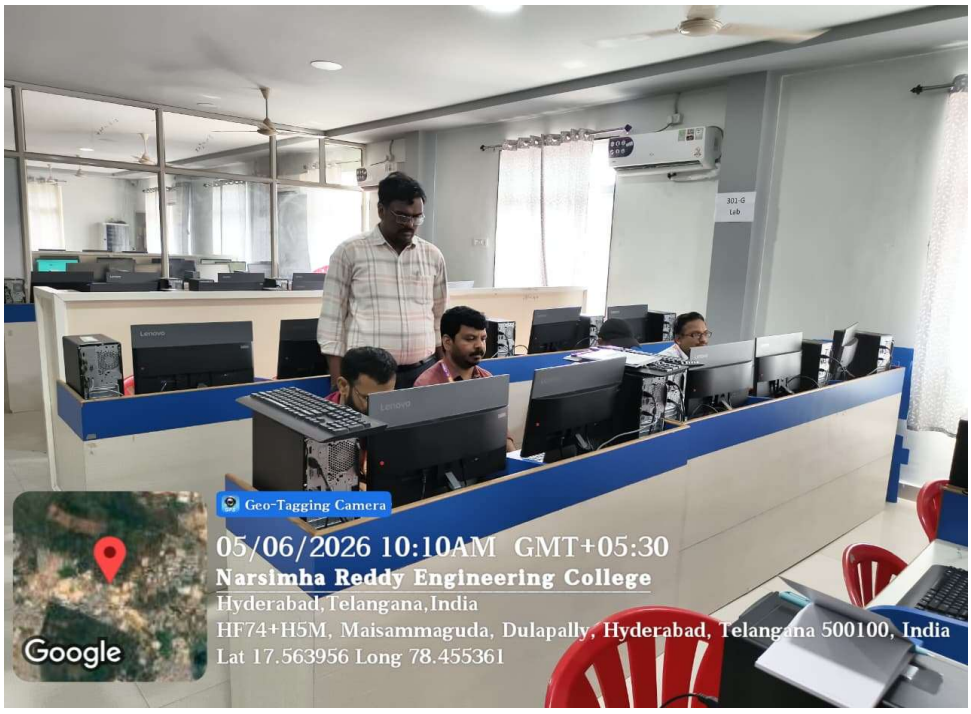
Faculty members successfully developed interactive dashboards and demonstrated their understanding of data analytics concepts through practical implementations. The top performers were recognized for their outstanding performance, while all participants were appreciated for their active participation and commitment to continuous learning.

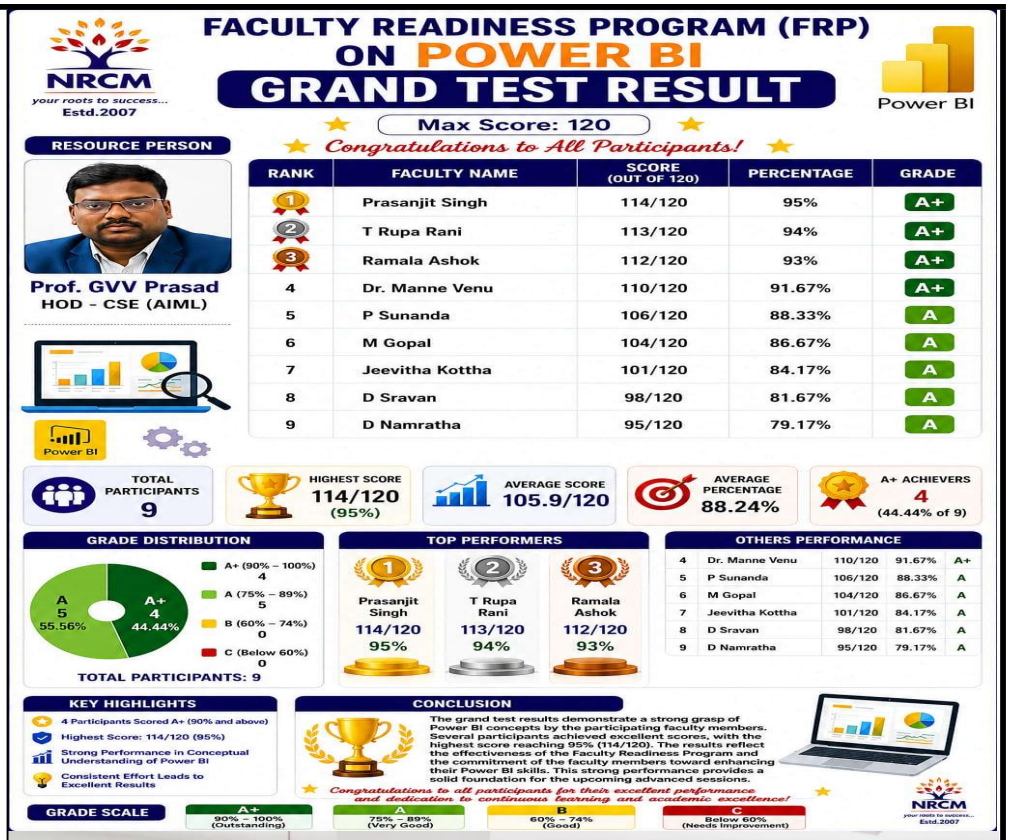
7. Conclusion

The Faculty Readiness Program on **"POWER BI – Data Visualization"** was successfully completed with enthusiastic participation and positive feedback from faculty members. The program served as an effective platform for enhancing knowledge in Business Intelligence, Data Analytics, and Data Visualization while promoting innovative teaching and learning practices.

The FRP concluded with a valedictory session, during which gratitude was expressed to the management, organizing committee, coordinators, resource person, and all participants for their valuable support and cooperation. The program significantly contributed to the professional development of faculty members and strengthened their ability to incorporate modern analytics tools into teaching, research, and academic projects.

Poster/ Brochure of the Event	

Event Photographs	  

Grand Test Result & Valedictory Session	 

*********~End of the Report~*********