



MALLA REDDY COLLEGE OF ENGINEERING

(Approved by AICTE-New Delhi, Affiliated to JNTUH-Hyderabad)

Recognized under Section 2(f) & 12(B) of the UGC Act 1956,

An ISO 9001:2015 Certified Institution.

Maisammaguda, Dhullapally, post via Kompally, Secunderabad - 500100

A Report of
National level 5 Days Faculty Development Program
On
Data Analytics using Power BI

Organized by:

Department of CSE (AI & ML)

Target Audience: Teaching Faculties



In association with

Institution Innovation Council and Plexus Club

Date: 6th June 2022 - 10th June 2022

Mode : Online



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ABOUT THE INSTITUTION



MRCE, BLOCK-A

Malla Reddy College of Engineering (Formerly CM Engineering College) has been established under the aegis of the Malla Reddy Group of institutions in the year 2005, a majestic empire, founded by chairman Sri. Ch. Malla Reddy. He has been in the field of education for the last 22 years with the intention of spearheading quality education among children from the school level itself.

Since the beginning Mr. Malla Reddy has endeavoured to ensure quality education and carved a niche for himself by managing this group of institutions.

Malla Reddy College of Engineering has been laid upon a very strong foundation and has ever since been excelling in every aspect. The bricks of this able institute are certainly the adept management, the experienced faculty, the selfless non-teaching staff and of course the students.



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INSTITUTION VISION:

To emerge as a centre of Excellence for producing professionals who shall be the leaders in technology innovation, entrepreneurship, and management and in turn contribute for advancement of society and human kind.

INSTITUTION MISSION:

- To provide an environment of learning in emerging technologies.
- To nurture a state of art teaching learning process and R&D culture.
- To foster networking with Alumni, Industry, Institutes of repute and other stakeholders for effective interaction.
- To practice and promote high standards of ethical values through societal commitment.

VISION OF THE DEPARTMENT

To teach excellence education for undergraduates in the field of Artificial Intelligence and Machine Learning in the technological-embedded domain and make professionals who help the better cause of society.

MISSION OF THE DEPARTMENT

- Impart demanding training to create knowledge through the state-of-the-art ideas and skills in Artificial Intelligence and Machine Learning.
- Facilitate the students to adapt to the rapidly changing technologies by providing cutting-edge laboratories and facilities.
- Kick off the research and training, paying special attention to the essential skills of the subsequent generation's workforce.



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ABOUT CSE (AI&ML) DEPARTMENT

The Department of Artificial Intelligence and Machine Learning (AI&ML) was founded in 2020 with the goal of providing high-quality higher education to as many students as possible and to satisfy the enormous need for highly trained professionals in the industry. The Department of AI&ML offers a B. Tech program in Computer Science and Engineering (Artificial Intelligence and Machine Learning). The curriculum is created to give students a firm foundation in AI and ML principles and concepts as well as practical experience in handling situations from the real world. Programming languages, computer architecture, machine learning, natural language processing, artificial intelligence, and deep learning are some of the department's core subjects. Students are continuously trained with an attitude of excellence to overcome automation challenges across all industries and provide new context and background to improve the agile process with the assistance of great laboratory facilities and well-qualified faculty members. Because of the program's interdisciplinary nature, it draws on knowledge and coursework from many different disciplines, including computer science, mathematics, and statistics. Students will have the chance to take part in research projects in addition to the required courses, both inside the department and with other departments and organizations. Students who complete the B.Tech. programme in Computer Science and Engineering (Artificial Intelligence and Machine Learning) will be well-versed in the theories and methods of AI & ML and will be qualified for employment in a range of fields and positions, including data analysis, software development, and research.



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Poster

KNOWLEDGE IS DIVINE
MALLA REDDY COLLEGE OF ENGINEERING

PLEXUS
UNITED BY NERVES

**DEPARTMENT OF CSE(AIML)
ORGANIZES**

**FACULTY DEVELOPMENT PROGRAM ON
DATA ANALYTICS USING
POWER BI**

SPEAKERS:

DAY 1: Dr. B. V. Swathi, Professor, GITAM

DAY 2: Dr. Sunkari Pradeep, Professor, MRECW

DAY 3: Dr. RV. Sudhakar, Associate Professor, GITAM

DAY 4: Dr. Smita Karpe, Associate Professor, MRECW

DAY 5: Dr. J. Siva Prashanth, Assistant Professor,
Anurag University

DATES: 6th June 2022 - 10th June 2022

Convener
Dr. Sridhar Reddy
Principal, MRCE

Co-Convener
Dr. Jawahar muthusamy
HOD-CSE(AIML)



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ABOUT THE EVENT

The Department of Computer Science and Engineering successfully organized a National Level Faculty Development Programme (FDP) on “Data Analytics Using Power BI.”

Data Analytics has emerged as a vital tool for decision-making across industries, enabling organizations to transform raw data into meaningful insights. Power BI, as a leading business intelligence and data visualization platform, plays a crucial role in analyzing, visualizing, and sharing data-driven insights effectively. This FDP was designed to equip participants with comprehensive knowledge of data analytics concepts and hands-on experience using Power BI for real-world applications.

The program emphasized practical implementation, interactive dashboards, and analytical reporting techniques, enabling faculty members to integrate data analytics tools into teaching, research, and consultancy activities. Participants gained exposure to data modeling, visualization best practices, and advanced analytics features of Power BI.

The FDP witnessed enthusiastic participation from faculty members belonging to engineering, science, management, commerce, and allied disciplines from various institutions across the country.

In the following days, the sessions covered diverse and impactful topics such as:

Day 1 – Fundamentals of Data Analytics

Session 1: Introduction to Data Analytics and Business Intelligence

Overview of data analytics concepts, types of analytics (descriptive, diagnostic, predictive, and prescriptive), and the role of business intelligence tools in decision-making.

Session 2: Introduction to Power BI Environment

Understanding Power BI architecture, Power BI Desktop, Power BI Service, data sources, and workflow for building analytics solutions.



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Session 3: Data Import and Data Cleaning

Connecting to multiple data sources, data transformation, cleaning, and shaping data using Power Query Editor.

Day 2 – Data Modeling and Visualization

Session 1: Data Modeling in Power BI

Creating relationships, understanding star and snowflake schemas, and optimizing data models for performance.

Session 2: Data Visualization Techniques

Designing effective visuals using charts, tables, slicers, and filters; principles of good dashboard design.

Session 3: Interactive Dashboards and Reports

Building interactive reports with drill-through, tool tips, and dynamic visual interactions.

Day 3 – DAX and Advanced Analytics

Session 1: Introduction to DAX (Data Analysis Expressions)

Understanding DAX syntax, calculated columns, measures, and commonly used DAX functions.

Session 2: Advanced DAX Functions

Time intelligence functions, aggregations, and performance optimization techniques using DAX.

Session 3: Analytical Insights and APIs

Creating APIs, trend analysis, forecasting basics, and extracting meaningful insights from dashboards.



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Day 4 – Power BI for Real-World Applications

Session 1: Power BI in Business and Research Applications

Use cases of Power BI in finance, marketing, healthcare, education, and research analytics.

Session 2: Publishing and Sharing Reports

Publishing reports to Power BI Service, sharing dashboards, workspace management, and collaboration.

Session 3: Data Security and Governance

Understanding row-level security (RLS), data privacy, and governance best practices in Power BI.

Day 5 – Integration, Deployment, and Future Trends

Session 1: Power BI Integration and Automation

Integrating Power BI with Excel, SQL, cloud platforms, and automating workflows.

Session 2: Emerging Trends in Data Analytics

Overview of AI-powered analytics, Power BI with machine learning, and future directions in data-driven decision-making.

Session 3: Open Discussion, Q&A, and Feedback

Interactive discussion for experience sharing, addressing participant queries, and exploring future learning and research opportunities.

The interactive nature of the FDP stood out as a key highlight. Faculty participants actively engaged in discussions, shared practical challenges, and explored innovative ways to incorporate data analytics tools into classroom teaching and research activities. By the end of the program, participants expressed that the FDP significantly enhanced their analytical skills and confidence in using Power BI for data-driven problem-solving.

The program concluded with a valedictory session, during which participants shared their feedback, describing the FDP as “insightful,” “hands-on,” and “highly relevant to current



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industry needs.” Certificates of participation were distributed to all faculty members, recognizing their dedication to continuous professional development.

In summary, the FDP on “Data Analytics Using Power BI” was a resounding success. It strengthened the analytical capabilities of faculty members, empowered them to guide students toward data-centric careers, and reinforced the institution’s commitment to bridging the gap between academia and industry through skill-oriented and technology-driven initiatives.



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FDP – AIM, PURPOSE AND IMPORTANCE

AIM

The aim of this Faculty Development Programme is to equip faculty members with a strong conceptual understanding and practical proficiency in data analytics using Power BI, enabling them to collect, transform, model, analyze, and visualize data effectively, develop interactive dashboards and reports, derive actionable insights from complex datasets, and seamlessly integrate data-driven decision-making tools and analytics applications into teaching, research, and interdisciplinary academic problem-solving.

PURPOSE

The purpose of this FDP is to provide a comprehensive platform where participants can:

- Understand the core concepts of data analytics, including data collection, data cleaning, transformation, data modeling, visualization, and analytical reporting using Power BI.
- Gain exposure to real-world and industry-relevant applications of data analytics in areas such as business intelligence, finance, marketing, healthcare, education, and research-driven decision making.
- Enhance their ability to design, develop, and analyze interactive dashboards and reports for academic, administrative, and research purposes using Power BI.
- Learn to effectively use Power BI tools and features such as Power Query, DAX, data modeling, and visualization techniques to support teaching, experimentation, and analytical research productivity.
- Foster collaboration among faculty members by sharing best practices and exploring innovative ways to integrate data analytics and Power BI-based insights into curriculum design, teaching methodologies, and interdisciplinary research.



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IMPORTANCE:

This FDP holds significant importance as it:

- Helps faculty stay aligned with recent advancements in data analytics, business intelligence, and the growing role of data-driven insights across diverse domains.
- Strengthens the academic ecosystem by promoting innovative, hands-on teaching strategies supported by real-time data analysis, interactive dashboards, and industry-relevant case studies using Power BI.
- Enhances faculty competency to guide students in data analytics-based projects, internships, research work, and industry-oriented problem solving.
- Promotes the development of high-quality academic projects, analytical reports, research publications, and interdisciplinary applications using modern data visualization and analytics techniques.
- Prepares educators to create a future-ready learning environment where students acquire analytical thinking, data interpretation skills, and data-driven decision-making capabilities aligned with industry needs.
- Helps institutions integrate data analytics and Power BI tools into curriculum design, research initiatives, institutional decision-making, innovation activities, and technological development, contributing to academic excellence and societal impact.

In essence, this FDP was not just about academic enrichment but about empowering faculty members to become data-driven leaders who can inspire and guide students to leverage analytics for meaningful insights and informed decision-making in a competitive global environment. It highlighted MRCE's commitment to continuous faculty development, innovation in education, and the holistic preparation of students to meet the evolving demands of the data-centric workforce.



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SUMMARY :

The National Level Faculty Development Programme on “**Data Analytics Using Power BI**”, organized by the Department of Computer Science and Engineering, Malla Reddy College of Engineering (MRCE), will be conducted entirely in online mode.

To ensure effective communication and seamless coordination throughout the programme, a dedicated WhatsApp group will be created. Participants are encouraged to join the group using the shared link to stay updated, interact with fellow participants, and receive important announcements. Session links, schedules, and related information will be communicated to participants via email prior to each session

Important:

FDP Dates Date: **6th June 2022 - 10th June 2022**

Mode: **Online**

All sessions will be conducted via **Cisco Webex**.

Note: We kindly request you to download and install the Cisco Webex Meetings app in advance to avoid any last-minute issues.

Total No.of Participants : 80

Installation links:

- **For Desktop/Laptop:** <https://www.webex.com/downloads.html>
- **For Android:**
<https://play.google.com/store/apps/details?id=com.cisco.webex.meetings>
- **For iOS (iPhone/iPad):** <https://apps.apple.com/app/id298844386>
- **WhatsApp Group Link :** <https://chat.whatsapp.com/LB23xHpe8qy4MdT7KpA4ZS>
- **FDP Session Link :**
<https://netacad.webex.com/netacad/j.php?MTID=m8e24f6c91db35948e76a995e3e8d5a2a>



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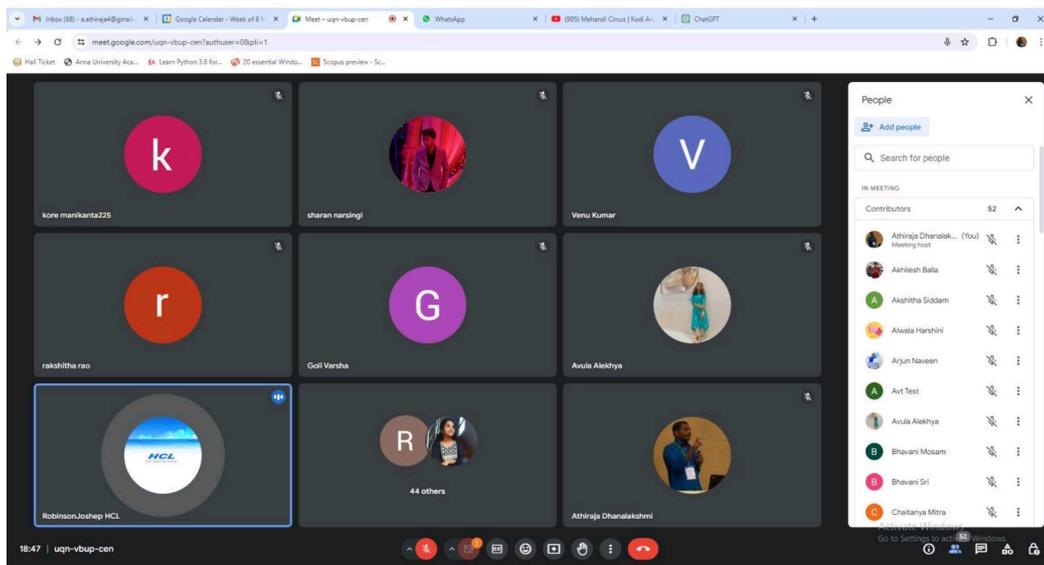
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Content and Session :

The Faculty Development Programme (FDP) commenced with a warm welcome and introductory address by Mrs. M Shiva Priya, Assistant Professor, who acknowledged the dignitaries and organizers behind the successful conduct of the programme. He warmly welcomed the visionary leader of MRCE, our respected Principal Dr. Maram Ashok, who delivered the inaugural address and emphasized the growing importance of data analytics and business intelligence tools such as Power BI in academics, research, and industry-driven decision making.

Day 1



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. B. V. Swathi, Professor, GITAM

Topic: Introduction to Data Analytics and Power BI

Objectives: Understanding fundamentals of data analytics and Power BI environment

Organization Name: Malla Reddy College of Engineering



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Venue: Online Platform

Time: 6:00 p.m. to 7:30 p.m.

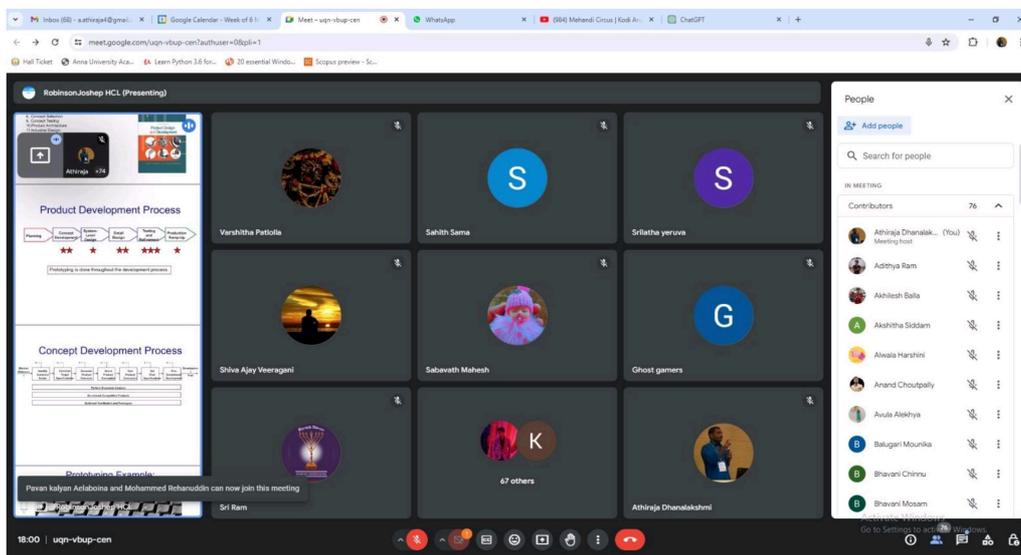
Mr. R. Venkatesh introduced the Chief Guest, Dr. B. V. Swathi, Professor, GITAM.

Fig. Inaugural and Introduction of Dr. B. V. Swathi

In her session, Dr. B. V. Swathi provided valuable insights into Data Analytics and Power BI, highlighting:

- Introduction to data analytics and business intelligence
- Types of analytics: descriptive, diagnostic, predictive, and prescriptive
- Overview of Power BI tools and workflow
- Importance of data visualization in decision making

Day 2



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. Sunkari Pradeep, Professor, MRECW

Topic: Data Preparation and Data Modeling in Power BI

Objectives: Understanding data cleaning, transformation, and modeling techniques



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Organization Name: Malla Reddy College of Engineering

Venue: Online Platform

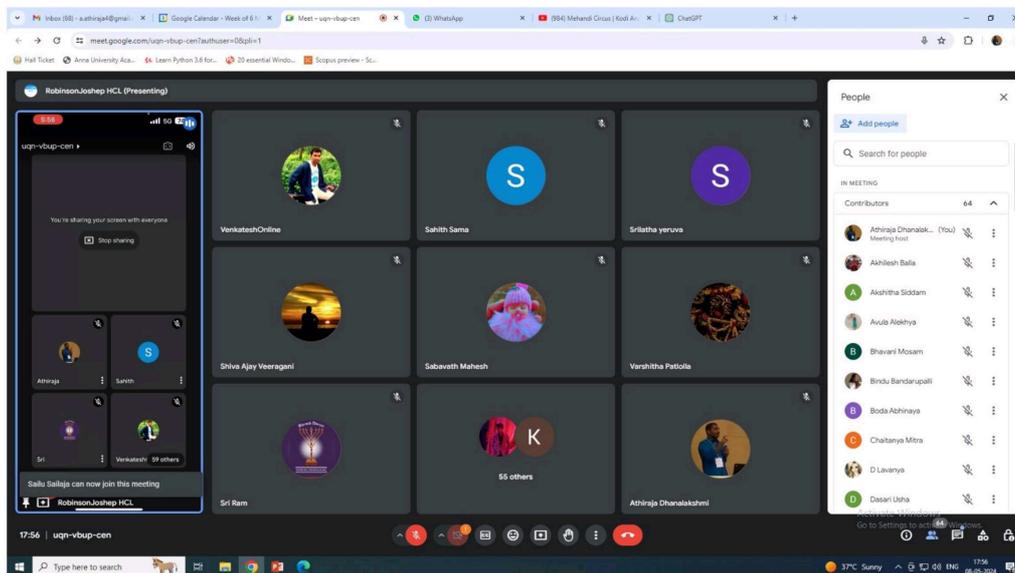
Time: 6:00 p.m. to 7:30 p.m.

In his session, Dr. Sunkari Pradeep delivered an in-depth explanation of data preparation and modeling, covering:

- Importing data from multiple sources
- Data cleaning and transformation using Power Query
- Creating relationships between datasets
- Best practices for efficient data modeling

Participants actively interacted and clarified doubts related to data preparation techniques.

Day 3



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. R. V. Sudhakar, Associate Professor, GITAM

Topic: Data Visualization and Interactive Dashboards

Objectives: Designing effective dashboards and interactive reports



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Organization Name: Malla Reddy College of Engineering

Venue: Online Platform

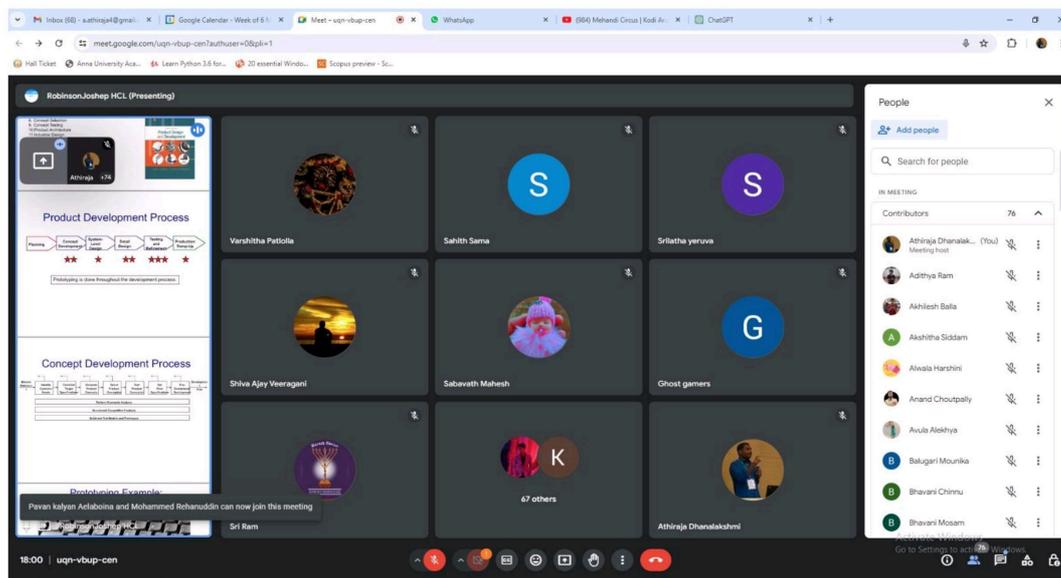
Time: 6:00 p.m. to 7:30 p.m.

Dr. R. V. Sudhakar delivered an insightful session on Power BI visualization techniques, which included:

- Creating charts, tables, slicers, and filters
- Designing interactive dashboards
- Drill-through and report navigation features
- Best practices for data storytelling

The session enhanced participants' understanding of presenting insights visually.

Day 4



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. Smita Karpe, Associate Professor, MRECW

Topic: DAX and Advanced Analytics in Power BI

Objectives: Understanding DAX functions and analytical insights



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Organization Name: Malla Reddy College of Engineering

Venue: Online Platform

Time: 6:00 p.m. to 7:30 p.m.

In her session, Dr. Smita Karpe emphasized advanced analytics concepts and discussed:

- Introduction to DAX (Data Analysis Expressions)
- Calculated columns and measures
- Time intelligence functions
- Creating KPIs and analytical insights

The session provided participants with hands-on exposure to advanced Power BI features.

Day 5

Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. J. Siva Prashanth, Assistant Professor, Anurag University

Topic: Applications of Power BI in Teaching and Research

Objectives: Applying Power BI in academic, research, and administrative environments

Organization Name: Malla Reddy College of Engineering

Venue: Online Platform

Time: 6:00 p.m. to 7:30 p.m.

In his session, Dr. J. Siva Prashanth provided valuable insights on:

- Power BI applications in academic projects and research analytics
- Publishing and sharing reports using Power BI Service
- Data security, ethics, and governance
- Future scope of data analytics and business intelligence



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The FDP concluded with an interactive Q&A session and feedback, followed by a Vote of Thanks delivered by Mr. R. Venkatesh, Assistant Professor, expressing gratitude to all the resource persons and participants for their active involvement.

- Open Discussion, Q&A, and Feedback

The programme concluded with an interactive discussion where participants shared feedback, clarified doubts, and discussed future learning directions.

PROGRAM OUTCOMES

Program Specific Outcomes (PSOs)

By the end of the Faculty Development Program, the participants will be able to:

PSO 1 – Pedagogical Excellence

Adopt modern teaching-learning methodologies, tools, and practices to enhance classroom engagement and knowledge delivery.

PSO 2 – Research & Innovation Competence

Apply advanced concepts, methodologies, and tools in their domain to initiate quality research, publications, and industry-oriented projects.

PSO 3 – Industry-Academia Collaboration

Integrate insights from industry experts and current technological trends into curriculum design, student mentoring, and project guidance.

PSO 4 – Professional and Ethical Development

Incorporate ethical practices, inclusivity, and lifelong learning habits in academic and research activities to serve as role models for students.



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Program Educational Objectives (PEOs)

The FDP aims to enable participants to:

PEO 1 – Continuous Upgradation of Knowledge

Strengthen their subject expertise and stay updated with emerging technologies and industry practices.

PEO 2 – Enhanced Teaching Competence

Develop innovative pedagogy and assessment strategies to improve student learning outcomes and employability.

PEO 3 – Research & Development Orientation

Encourage faculty to pursue research, secure funded projects, publish in reputed journals, and contribute to academic excellence.

PEO 4 – Holistic Faculty Growth

Foster a spirit of collaboration, adaptability, and professional responsibility, ensuring that faculty contribute effectively to the institution's mission and vision.

PEO 5 – Building Student-Centric Ecosystems

Equip faculty to mentor students effectively by guiding them through internships, projects, industry certifications, and career development activities.



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CONCLUSION

The Five Day Faculty Development Programme (FDP) on “Data Analytics Using Power BI” concluded successfully with a well-balanced blend of conceptual understanding, hands-on learning, and collaborative engagement. Throughout the programme, participants developed a strong foundation in data analytics concepts, data modeling, visualization techniques, and the effective use of Power BI for academic, research, and decision-making purposes. The structured sessions enabled faculty members to appreciate the growing significance of data-driven insights in modern education, research, and institutional planning.

Eminent resource persons from reputed institutions delivered insightful sessions covering key areas such as data preparation, data modeling, interactive dashboard creation, DAX functions, and advanced analytical insights using Power BI. The sessions highlighted real-world and industry-relevant applications of data analytics across domains including business intelligence, finance, healthcare, education, and research analytics. Interactive discussions, practical demonstrations, and experience sharing helped participants connect analytical concepts with real-time data scenarios and research-oriented use cases.

Overall, the FDP successfully achieved its objective of equipping faculty members with the knowledge and practical proficiency required to leverage Power BI for effective data analysis and visualization. The programme enhanced participants’ analytical thinking, research capabilities, and mentoring skills, while encouraging the adoption of data-driven pedagogical and research practices. The successful completion of this FDP marks a significant step toward developing a community of educators who are analytically skilled, technology-enabled, and well-prepared to guide students in a data-centric and insight-driven world.



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SAMPLE CERTIFICATE

CERTIFICATE
OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Mrs. Naga Praveen

For participating in Five Day National level Faculty Development Program on "Data Analytics using Power BI" conducted from 06th to 10th June 2022.


Dr. Jawahar Muthusamy
Co-Convener
HOD-CSE(AIML)-MRCE




Dr. Sridhar Reddy
Convener
PRINCIPAL-MRCE

CERTIFICATE
OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Dr. B. V. Swathi

For the contribution as a Resource Person in the Five-Day National Level Faculty Development Program on "Data Analytics using Power BI", conducted from 06th to 10th June 2022.


Dr. Jawahar Muthusamy
Co-Convener
HOD-CSE(AIML)-MRCE




Dr. Sridhar Reddy
Convener
PRINCIPAL-MRCE



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“A National level FDP on “Data Analytics using Power Bi” Successfully organized and completed with support of convenor, co-convenor, Organizers.

Signature

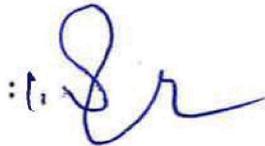
Convenor

: 

Co-convenors

: 

Organizers

: 1. 

2. 

THANK YOU!!