adani
University

Centre for Continuing Education
Certificate Programme on
POWER BI
(From Data to Dashboard)

Adani University - Centre for Continuing Education (AU-CCE)

Adani University is a research-intensive educational institution set-up with the objective to empower by focusing on real-world problems and contribute to global sustainability. With its futuristic & inspirational thought leadership from Adani Group, we aim at interdisciplinary excellence.

Adani University Centre for Continuing Education (AU-CCE) is poised to enable, empower, and enhance your learning by up-skilling and re-skilling you, appropriate to your profession. AU-CCE brings to you the gamut of global experiences, current knowledge trends through its various programs as below:

- Standard programs
- Packaged programs
- Customized programs
- Specific interventions at junior, mid- and senior management

Our value proposition is to help you value-your-time and value-your-money.

We believe in empowering individuals by upgrading and skilling them to make them competitive by understanding best practices of industry and current trends and updates. We are aimed at developing careers for the individuals by offering value-added training programs.

Data, Data Visualization, and Tools

Data is the key element for modern industries, and it is getting generated more than ever before. It has a lot to do with customer behavior, product values, and the status of the market.

Data visualization tools are software applications that render information in a visual format such as a graph, chart, or heat map for data analysis purposes. Such tools make it easier to understand and work with massive amounts of data. Visualization comprehends vast amounts of data briefly and in a better way. It helps to understand the data better to measure its impact on the business and communicates the insight visually to internal and external audiences. Decisions can't be made in a vacuum; data visualization helps in providing logic to those decisions.

Business Intelligence provides actionable insights and helps a business make tactical decisions for improving the customer base and generating more value and profits.

For data visualization and business intelligence, we have several tools available in market like Power BI, Tableau, Qlik Sense, Zoho Analytics, and many more. In this programme, we shall cover the modules of the most popular tool – Microsoft Power BI.

Power BI

Microsoft Power BI is a collection of tools, software, and services that enables a business to analyze complex information and convert it into visual insights. With the help of the right tools and technologies like Microsoft Power BI, businesses can predict market behavior and make profitable decisions.

Power BI is used by various industries from different sectors to improve data visualization and decision-making processes that eventually lead to profitability.

It is a unified, scalable platform for self-service and enterprise business intelligence (BI). It helps in bridging the gap between data and decision-making. It easily connects to, model, and visualizes your data, creating memorable reports personalized with your KPIs and brand.

Power BI gives reporting and analytical power to a business by providing competitive information to planners and decision-makers. With Power BI, the decision-makers can source, alter, and visualize the data using Artificial Intelligence and make better decisions based on the scenarios.

So, let's dive deep into in the ocean of 'Microsoft Power BI' and take one step further in enhancing their career.

Objective of the programme

- Connect and transform data for analysis and decision making
- Model and analyze data to gain a deeper business understanding
- Data analysis for enhancing business productivity and profitability
- Insights on data visualization
- Data-based decision-making based on the accuracy

Programme Modules and Key Learnings

1. Introduction to Power BI

- Power BI Portfolio
- Introduction to Power BI Desktop

2. Integration of Data from various sources

- Data Sources in Power BI Desktop
- Types of data source connectors available
- Connecting to multiple data sources

3. Data Cleansing and Transformations

- Clean and shape your data with Query Editor
- Combining Data – Merging and Appending
- Cleaning irregularly formatted data
- Introduction to Advanced Editor M query
- Various types of transformations and features for data cleansing

4. Creation of Data Models

- Introduction to Data Modelling
- Setup and Manage Relationships
- Cardinality and Cross Filtering
- DAX measures and columns for creating relationships
- Different types of visualizations (Bar, line, Scatter & Bubble Charts & Play Axis, and more)
- Analysis of Geospatial data
- Slicers, Timeline Slicers & Sync Slicers
- Cross Filtering and Highlighting

5. Power BI Desktop Visualizations

- Multivariate reporting and analysis using Power BI custom visuals and advanced features
- Drill Down and drill through between tabs
- Conditional Formatting in visuals and tables
- Using KPIs, Cards & Gauges
- Report page tooltips for deeper analysis
- Drill through between reports
- DAX calculations for time series calculations, Excel-based functions

6. Power BI Service & creation of dashboards

- Creation of dashboards
- Sharing of dashboards and reports
- Getting quick insights from your data
- Setting up email alerts on dashboards

7. Creating Power BI reports from your own Excel data

- Connecting multiple Excel files and creating appropriate relationships between them
- Shaping and cleaning the data in Query Editor
- Data Exploration and visualization of required KPIs

Engagement Model

LIVE ▶

Live sessions

Audio/Video

Hands-on practice

Illustrations

Assignments

At the end of the programme

- You shall be able to create attractive dashboards using your own data

- Present the data visually with infographics and merge the multiple sheets into one dashboard

- You shall be able to analyze the data and create action-induced response

- Enhance your career as Data Analyst, Data scientist, and many other key positions with senior management

Who Should Attend

- Mid-level to senior managers from different functions of management like marketing, operations, supply chain management, procurement, finance, HR, and other general management will benefit from this programme to play a vital role in the decision-making process of the organization.

- Businessmen, entrepreneurs, and aspiring start-up owners will also find this programme useful to understand business dynamics.

- Post graduate students and research scholars for deeper understanding of data and presentations

Facilitator

Prof. Amit Saraswat

Prof. Amit is Co-founder and Chief Product Officer at Metis Intellisystems Pvt. Ltd. Amit has a Ph.D. in Advanced Statistical Methods. He has done his B.Tech from IIT (Roorkee). He was the ex-Chief Data Scientist at LendingKart and ex-Data Scientist at Fidelity Investments. He is the visiting faculty at leading colleges teaching Data Science. Prof. Saraswat having more than 25 years of industry and academic experience which helps in imparting practical knowledge to participants.

Facilitator

Dr. M Iyyappan

Dr. Iyyappan is an Assistant Professor in the Department of CSE & ICT, at Adani University. He is a passionate academician and vibrant researcher. He has more than 9 years of teaching experience and 5 research experiences in Computer Science and Engineering. Dr. Iyyappan has been invited to deliver an expert talk at many universities. He is a certified industrial trainer of IBM / TCS / Xebia organization for programmes like Enterprise Design Thinking, FCEAD Software Architect, Development Operation Systems, and Continuous Integration & Continuous Deployment. Optimization Techniques and Algorithms, DevOps, Component-Based Software Models, Software Metrics, Data Analytics, Cloud Computing, and Artificial Intelligence & Data Science. He has done his Ph.D. in Computer Science and Engineering from SRM University.

When, Where & How?

Date   —   May 25 to July 07, 2023

Duration   —   28 hours | 7 weeks

Mode   —   Online Mode

Timings   —   Every Thursday and Friday | 04.00 to 06.00 p.m.

Investment

Rs.15,999/- plus 18% GST.

Fee includes programme fee, digital reading material and certificate of completion. Certificate shall be issued based on minimum 80% attendance, evaluation tests and submission of assignments.

Special concession of 25% for group nominations and students.

Last date to register: 8 p.m. on Monday, May 22, 2023

Note: Minimum 80% Attendance is mandatory to get a certificate.

For more details, please contact

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