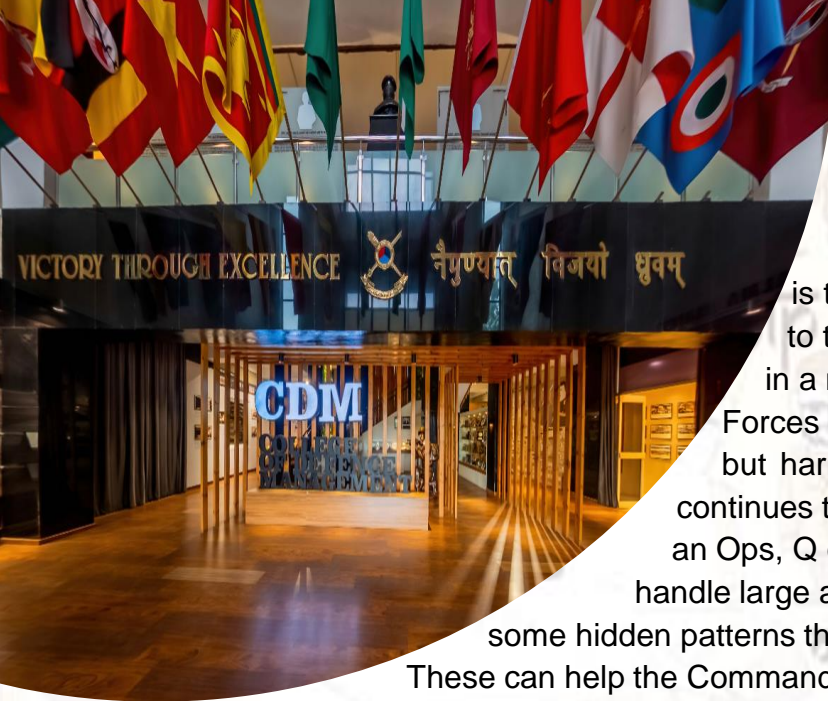# MDP ON BIG DATA AND VISUAL ANALYTICS

Faculty of Decision Sciences

College of Defence Management

Genesis

The ultimate goal of any organization is to use the *insights* from present data to take action and steer the organization in a more productive direction. The Armed Forces also work with a huge amount of data but harnessing it in the most optimal manner continues to be a challenge. As a Staff Officer in an Ops, Q or Adm vertical, it would be binding to handle large amounts of data, which often contains some hidden patterns that reveal rich and actionable insights. These can help the Commanders make decisions. So, the question is – *How do you convert data to insights?* Answering that very query is the bedrock of this short programme by CDM.

Aim

To enable the participants to understand the concept of Big Data and to discover insights from large datasets using Visual Analytics.
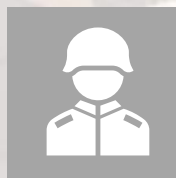
Course Objectives

To introduce handling of large datasets.

To introduce understanding of granularity of Big Data.

To introduce the power of Advanced Excel to discover trends and patterns in large datasets.

To introduce MS Power BI as a powerful tool for Visual Analytics.

Course Content

Big Data Analytics
- Introduction to Big Data.
- Big Data Analytics.

Advance Excel
- Create flexible data aggregations using pivot tables.
- Represent data visually using pivot charts.
- Convert data and pivot tables into interactive dashboards.
- Macros for automation.

Power BI, Data Visualisation
- Introduction to Microsoft Power BI.
- Creating interactive reports.
- Tools for Big Data Analytics.
- Introduction to Data Visualization & Data Visualization techniques.

Hands on Effort
- Case Study
- Sessions on Adv Excel & MS Power BI
- Exercise on Mil Datasets.
- Peer Learning

Ex
- Undertake data cleansing & data preparation activities.
- Ability to undertake data analytics to derive valuable insights from large datasets.

How to Apply
- Nominations through formations as per vacancy allotted.
- For additional information contact DS Coord, CDM at **dscoord.ids@gov.in**

Schedule for 2025-26 | 30 Jun 2025 – 05 Jul 2025

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