

11M DR

6. Kindly attach program schedule in the following format along with 4-5 lines of broad coverage and learning outcomes for each program:

**Program Ref No. 1: Empowering Decision Making with Data Analytics**

**About the Program:**

Public Sector Enterprises have witnessed an unprecedented growth of data at various levels. Despite such high availability of data, so much of it remains underutilized as they face challenges in extracting value from data. Many of the data analytics initiatives don't provide actionable insights, and decision-makers have to rely solely on intuition and gut-driven decision-making. This program would enable the participants to strengthen their intuition-based decision making with sound analytical methods and thereby take appropriate interventions in creating value for their work with their data analytics initiatives. The five-day program is designed to help officers leverage the power of data, statistical analysis, optimization methods and decision making under uncertainty for effective decision-making

**Learning Outcomes:**

1. Build capabilities to apply quantitative modelling and data analytical techniques to take effective administration/managerial/ policy decisions
2. Critically analyse the outputs of quantitative methods and interpret the results in the context of real-life situation
3. Complement intuition-based decision-making with data-driven decision-making

**Session Titles** (Each day will have four sessions of 75 minutes each)

Day	Session-1	Session-2	Session-3	Session-4
1	Data Driven Decision Making – An Overview	Digital Transformation	Describing the Data	Point and Interval Estimates
2	Generating Insights through Data Visualization - I	Generating Insights through Data Visualization – II	Deciphering Data Anomalies-I	Deciphering Data Anomalies-II
3	Generating and Testing Hypotheses-I	Generating and Testing Hypotheses-II	Building Prediction Models	Building and Evaluating Classification Models
4	Forecasting Business/Industry Developments- I	Forecasting Business/Industry Developments- II	Selection of the best alternative- An optimization approach	Optimization models – shift from finding solution to aiding the decision
5	Empowering the decisions: ML& AI	Sentiment Analysis	Data Driven Approach for Risk Analysis-I	Data Driven Approach for Risk Analysis-II