Data visualization principles for effective communication

Module 1: Data and its display

- Sources of Data and its authenticity
- Data security and validation
- Display methods – charts, maps, dashboards
- Multimode, Multi dimension displays and when to use what

Module 2: Principles of Usability

- Understanding the User and the Domain
- Detailing information on the User Environment
- Defining the User Persona and characteristics
- User Tasks and Scenarios for completion of work

Module 3: Nature of data and Information Architecture

- Treating data as organic and planning for its growth
- Evaluation of data growth and planning for performance
- Scalability plan considerations
- Preparing an overall information flow and architecture

Module 4: Colors, Words and Workflows

- Theory of colors and Human Factors in Interaction Design
- Typefaces and Letter dimensions for display
- Data display decision making: input control, slicing data, drills, charting, reports
- Status,Alert indicators and Notifications
- System support notifications – tool tips, mouse over, scroll bar displays etc
- Preparing for future workflows with pervasive Internet of Things (IoT)