

Course Schedule

Course Name: Data Analytics

Course Duration: 22-05-23 to 31-05-23

Timings

Session I	10:00 – 11:15	Session II	11:30 – 12:45
Tea Break	11:15 – 11:30	Lunch Break	12:45 – 13:45
Session III	13:45 – 15:00	Session IV	15:15 – 16:30
Tea Break	15:00 – 15:15		

Day / Date	Session No.	Topic	Faculty
Day 1 22-05-2023 Monday		Brief Interaction	DG, RTI, Shillong
(Only ICDS PA Teams)	I	Introduction and Overview of the Integrated Child Development Services Scheme – Organisational Setup, Institutional Arrangements, etc.	Subject Experts from Social Welfare Department, Govt. of Meghalaya
	II	Planning Process – State/District Child Development Plans, Annual Project Implementation Plan, etc. Convergence Framework and Financial Management	
	III	Procurement, Infrastructure Development and Management under ICDS	
	IV	Record Maintenance and Data Management in ICDS – Financial data, beneficiary data, reporting data, etc.	
Day 1 22-05-2023 Monday	I to IV	Group Work on preparation of ADM/Checklist/Sampling Frame	DAG/Core Faculty
(Only ICDS PA Teams)	I	Scheme Implementation - Early Childhood Care Education and Development, Care and Nutrition Counselling, Supplementary Nutrition Programme, Poshan Abhiyaan, Health Service Delivery, Scheme for Adolescent Girls, etc.	Subject Experts from Social Welfare Department, Govt. of Meghalaya
	II	Scheme Implementation - Early Childhood Care Education and Development, Care and Nutrition Counselling, Supplementary Nutrition Programme, Poshan Abhiyaan, Health Service Delivery, Scheme for Adolescent Girls, etc.	
	III	Overview of POSHAN tracker system used by ICDS. Features of software application, technologies used, data extraction, work flow etc. Objectives, Challenges	
	IV	Overview of POSHAN tracker system used by ICDS. Features of software application, technologies used, data extraction, work flow etc. Objectives, Challenges	
Day 2 23-05-2023 Tuesday	I to IV	Group Work on preparation of ADM/Checklist/Sampling Frame	DAG/Core Faculty
(Only CCTNS PA Teams)			

Day / Date	Session No.	Topic	Faculty
Day 3 24-05-2023 Wednesday (ICDS and CCTNS PA Teams combined)	I	Review of Basic Concepts of Data Analytics, common data types such as String, numeric, date/time etc. Types of Analytics. Advantages, Challenges and Limitations of Data Analytics	CF, RTI, Shillong
	II	Practical Session: Import of data Dump (CSV/Flat file) in MySQL/ MS SQL Database. Challenges in real-world scenario faced by Audit. Sharing of experience by participants (if any)	CF, RTI, Shillong
	III	IDEA: Importing of CCTNS/ICDS Data, Importing data using ODBC, Indexing of Data – Quick Index, Composite Index, Sorting Data. Field Manipulation in IDEA – Append, Remove, Modify columns – Data types – Virtual, Non Virtual, Editable, Enabling/Disabling deletion of non-virtual fields. Basic data analysis in IDEA – Duplicate Key Detection/Exclusion, Gap Detection, Summarization	Faculty from the O/o the PAG (Au) Assam
	IV	IDEA: Data Extraction – Direct Extraction, Key value extraction, Top/Bottom Records extraction, Indexed Extraction Working with multiple databases – Join, Visual Connector, Append, Compare	-do-
Day 4 25-05-2023 Thursday. (ICDS and CCTNS PA Teams combined)	I	IDEA: Data Extraction – Direct Extraction, Key value extraction, Top/Bottom Records extraction, Indexed Extraction Working with multiple databases – Join, Visual Connector, Append, Compare	-do-
	II	Commonly used @ Functions in IDEA, introduction to #functions and practical use cases	-do-
	III	Stratification of Data, Aging analysis, Sampling	-do-
	IV	Exporting Data from IDEA to other formats, Creating and Printing Reports in IDEA	-do-
Day 5 26-05-2023 Friday (ICDS and CCTNS PA Teams combined)	I	Advanced MS Excel Features and Functions for data analytics	CF, RTI, Shillong
	II	Advanced MS Excel Features and Functions for data analytics	CF, RTI, Shillong
	III	An overview of Tableau Desktop. Connecting CCTNS/ICDS dataset to tableau. Concept of worksheet with focus on Dimension, Measure, Different Menu. Concept of Marks, Show Me, Sorting, Filter, Simple Dashboard, Saving a Tableau file, File Types in Tableau.	Faculty from the O/o the PAG (Au) Sikkim
	IV	Table calculation: Grand Total, Subtotal, Percentage of total, Quick table calculation, Table calculation in cross tab, Differentiate Calculation	-do-
Day 6 27-05-2023 Saturday (ICDS and CCTNS PA Teams combined)	I	Use of Logical Function. Concept of Set, Parameter, Group	-do-
	II	Tableau Exercise: Analysing data, deriving insights; identifying risk areas	-do-
	III	Tableau Exercise: Analysing data, deriving insights; identifying risk areas	-do-
	IV	Principles of Visualisation, Concept of various Tableau Charts: Text Tables, heat maps, highlighted tables, pie chart, horizontal bars, stacked bars, tree maps, line chart, scatter plots, packed bubbles	-do-

Day / Date	Session No.	Topic	Faculty
Day 7 29-05-2023 Monday	I	Experience Sharing on previous ICDS Audit	DAG/SAO, O/o PAG (Audit) Tripura
	II	Experience Sharing on previous CCTNS Audit	DAG/SAO, O/o PAG (Audit) Assam
	III	Group presentation on ADM/Audit Checklists and Sampling Frame by CCTNS Audit Team of Arunachal Pradesh	PAG/DAG/Core Faculty
	IV	Group presentation on ADM/Audit Checklists and Sampling Frame by CCTNS Audit Team of Meghalaya	PAG/DAG/Core Faculty
Day 7 29-05-2023 Monday (Only ICDS PA Teams)	II to IV	Group Work on preparation of ADM/Checklist/Sampling Frame	DAG/Core Faculty
Day 8 30-05-2023 Tuesday	I	Group presentation on ADM/Audit Checklists and Sampling Frame by CCTNS Audit Team of Mizoram	PAG/DAG/Core Faculty
	II	Group presentation on ADM/Audit Checklists and Sampling Frame by CCTNS Audit Team of Sikkim	PAG/DAG/Core Faculty
	III	Group presentation on ADM/Audit Checklists and Sampling Frame by ICDS Audit Team of Assam	PAG/DAG/Core Faculty
	IV	Group presentation on ADM/Audit Checklists and Sampling Frame by ICDS Audit Team of Meghalaya	PAG/DAG/Core Faculty
Day 8 30-05-2023 Tuesday (Only ICDS PA Teams)	I & II	Group Work on preparation of ADM/Checklist/Sampling Frame	DAG/Core Faculty
Day 9 31-05-2023 Wednesday	I	Group presentation on ADM/Audit Checklists and Sampling Frame by ICDS Audit Team of Mizoram	PAG/DAG/Core Faculty
	II	Group presentation on ADM/Audit Checklists and Sampling Frame by ICDS Audit Team of Nagaland	PAG/DAG/Core Faculty
	III	Group presentation on ADM/Audit Checklists and Sampling Frame by ICDS Audit Team of Manipur	PAG/DAG/Core Faculty
	IV	Valediction and Feedback	DG, RTI, Shillong