**International Centre for Information Systems & Audit (iCISA), Noida**

Course Schedule for Bilateral Training Programme on

**“KNIME and Tableau” for Officers of SAI Maldives under Aids to Maldives Programme of GOI**

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| **Session** | **Topic** | **Time in India (hrs.)** |
| **11 December 2023 (Monday)** |
| **Registration at 10:30 am ( Auditorium of iCISA)** |
| **Session 1**  | Inauguration at iCISA followed by presentation on Data Analytics in SAI Maldives | 11 :00 am onwards  |
|  | **Lunch Break** | 12:15 to 14:00 |
| **Session 3** | Introduction to Data Analytics and Dealing with different types of data using different Data Analytics tools | 14:00 to 15:15 |
|  | **Mr. Karan Vohra, Dy. Director, O/o the C&AG of India, New Delhi** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Introduction to Data Analytics and Dealing with different types of data using different Data Analytics tools | 15:45 to 17:00 |
|  | **Mr. Karan Vohra, Dy. Director, O/o the C&AG of India, New Delhi** |  |
| **12 December 2023 (Tuesday)** |
| **Session 1** | Big Data Analytics: Significance for Auditing & Guidance for SAIs | 10:00 to 11:15 |
|  | **Mr. Jitendra Tiwari, Director, O/o the DGA West Central Railway, Jabalpur** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Big Data Analytics: Significance for Auditing & Guidance for SAIs | 11:45 to 13:00 |
|  | **Mr. Jitendra Tiwari, Director, O/o the DGA West Central Railway, Jabalpur** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Overview of Tableau, understanding Tableau, terminology, connecting to data | 14:00 to 15:15 |
|  | **Mr. Gowthaman R, Dy. Director, O/o PDA, Industry & Corporate Affairs, New Delhi** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Overview of Tableau, understanding Tableau, terminology, connecting to data | 15:45 to 17:00 |
|  | **Mr. Gowthaman R, Dy. Director, O/o PDA, Industry & Corporate Affairs, New Delhi** |  |
| **13 December 2023 (Wednesday)** |
| **Session 1** | Use of Tableau in VLC Dashboard: A case study | 10:00 to 11:15 |
|  | **Mr. K. S. G. Narayan, PAG, O/o the PAG (A&E), Assam, Guwahati** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Use of Tableau in VLC Dashboard: A case study | 11:45 to 13:00 |
|  | **Mr. K. S. G. Narayan, PAG, O/o the PAG (A&E), Assam, Guwahati** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Data Type Conversion (Data Preparation): Dimension and Measure; Continuous and Discrete data: Understanding green and Blue pills Marks shelf: Hierarchies: Hands on Sessions | 14:00 to 15:15 |
|  | **Mr. Anil Goyal, Sr. Audit Officer, O/o the C&AG of India, New Delhi** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Data Type Conversion (Data Preparation): Dimension and Measure; Continuous and Discrete data: Understanding green and Blue pills Marks shelf: Hierarchies: Hands on Sessions | 15:45 to 17:30 |
|  | **Mr. Anil Goyal, Sr. Audit Officer, O/o the C&AG of India, New Delhi** |  |
| **14 December 2023 (Thursday)** |
| **Session 1** | Blending data, difference between joining and blending, Conditional filters | 10:00 to 11:15 |
|  | **Ms. Niti Sethi, Consultant, O/o the C&AG of India, New Delhi** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Blending data, difference between joining and blending, Conditional filters | 11:45 to 13:00 |
|  | **Ms. Niti Sethi, Consultant, O/o the C&AG of India, New Delhi** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Basic Charts : Highlights table, bar graph, stacked graph, scatters etc. | 14:00 to 15:15 |
|  | **Mr. Gowthaman R, Dy. Director, O/o PDA, Industry & Corporate Affairs, New Delhi** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4**  | Geographic Visualizations in Tableau: Hands on Sessions | 15:45 to 17:30 |
|  | **Mr. Gowthaman R, Dy. Director, O/o PDA, Industry & Corporate Affairs, New Delhi** |  |

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| **15 December 2023 (Friday)** |
| **Session 1** | Data downloading, Filters, Order of operations, Sorting : Hands on Session | 10:00 to 11:15 |
|  | **Mr. Gautam Gahlaut, Sr. Audit Officer** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Calculated fields: Basic functions : aggregations in calculated fields, Conditional functions  | 11:45 to 13:00 |
|  | **Mr. Gautam Gahlaut, Sr. Audit Officer** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Parameters- Parameters with Filters, parameters with sets, parameter with calculated fields | 14:00 to 15:15 |
|  | **Mr. Gautam Gahlaut, Sr. Audit Officer** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Interactive dashboards and stories: Hands on Sessions  | 15:45 to 17:30 |
|  | **Mr. Gautam Gahlaut, Sr. Audit Officer** |  |
| **15th Evening -17th December 2023**  |
|  | **Study Tour to Jaipur** |  |
| **18 December 2023 (Monday)** |
| **Session 1** | KNIME: A Broad overview: Build a basic workflow | 10:00 to 11:15 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | KNIME: A Broad overview: Build a basic workflow | 11:45 to 13:00 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Data preparation & cleaning  | 14:00 to 15:15 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Data preparation & cleaning | 15:45 to 17:00 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |

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| **19 December 2023 (Tuesday)** |
| **Session 1** | Deriving insights from datasets | 10:00 to 11:15 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Data Visualization | 11:45 to 13:00 |
|  | **Mr. G Rajagopal, AAO, PDA (South Central Railway), Secunderabad** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session 3** | Exercise/ case Study: Data import, Manipulating | 14:00 to 15:15 |
|  | **Ms. Niti Sethi, Consultant, O/o the C&AG of India, New Delhi** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session 4** | Other KNIME features: Report Generation; Database connectivity, Database Operations- Hands on Sessions | 15:45 to 17:00 |
|  | **Ms. Niti Sethi, Consultant, O/o the C&AG of India, New Delhi** |  |
| **20 December 2023 (Wednesday)** |
| **Session 1**  | Application of Statistical Concepts in Data Analytics | 10:00 to 11:15 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2**  | Application of Statistical Concepts in Data Analytics | 11:45 to 13:00 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
|  | **Visit to CAG HQrs: Meeting with Senior Management** |  |
| **21 December 2023 (Thursday)** |
| **Session 1**  | Distribution of Workflows: Predictive Analysis using KNIME: Hands on Sessions | 10:00 to 11:15 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Text Processing in KNIME – Hands on Sessions | 11:45 to 13:00 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
|  | **Lunch Break** | 13:00 to 14:00 |
| **Session-3** | Use of KNIME in Audit: A case study | 14:00 to 15:15 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
|  | **Break** | 15:15 to 15:45 |
| **Session-4** | Use of KNIME in Audit: A case study | 15:45 to 17:00 |
|  | **Mr. G K Omee, Assistant Audit Officer** |  |
| **22 December 2023 (Friday)** |
| **Session 1** | Assessment Exercise | 10:00 to 11:15 |
|  | **Break** | 11:15 to 11:45 |
| **Session 2** | Assessment Exercise | 11:45 to 13:00 |
|  | **Lunch Break** | 13:00 to 14:00 |
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