155th International Training Programme

On

**Auditing in IT Environment**

**(21st August to 15th September, 2023)**

**Course Schedule**

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| 155 ITP I Week: Audit of Information Systems |
| **Date & Day** | **Session I 10:00-11:15** | **Session II 11:45-13:00** | **Session III 14:00-15:15** | **Session IV 15:45-17:00** |
| **21-08-2023Monday** | Briefing & Ice-breaking session | Introducing India/ Presentation by SAI India participant | **Inauguration**  |
| **22-08-2023Tuesday** | Digitisation in Public Sector in India | IS Governance & Management -IS & IS Security Frameworks, Capability maturity model | Frameworks for conducting audit of Information Systems: Standards and Guidance |
|  | **Dr. Kshitij Kushagra, Additional Director/Scientist E****MeitY** | **Mr. K Srinivasan, Retd. Deputy CAG**  |
| **23-08-2023Wednesday** | IS Application Controls | Acquisition, Development and Implementation of Systems |
|  | **Ms. Sowmini S, Senior Audit Officer** | **Mr Gaurav Rai, Director IS-I** |
| **24-08-2023Thursday** |  **Information systems auditing process** : Risk-Based approach to IS Audit Planning & Audit process activities  | **Information Security**: - Concepts, Risks, Attacks, Goals for Security & Network & Application Security IS |
|  | **Ms. Suhasini Gotmare, Principal Director** | **Colonel Inderjeet Singh , Vara Technologies**  |
| **25-08-2023Friday** | OWASP Top 10 vulnerabilities and Web Application Security | **IS Operations and Business Resilience**- A case study | **Integrity issues in IT Systems**: A case study on e-Procurement |
|  | **Colonel Inderjeet Singh , Vara Technologies** | **Mr. Sanjiv Arora, Ex-President, ISACA, New Delhi** | **Mr. Abraham Judah Cephas A, DAG, O/o the Pr. Accountant General (Audit-I), Tamil Nadu, Chennai** |
| **26-08-2023Saturday** | **Visit to Agra** |
| **27-08-2023Sunday** | **Social programme/Activity** |

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| 155 ITP II Week: Computer Assisted Audit Tools |
| **Date & Day** | **Session I 10:00-11:15** | **Session II 11:45-13:00** | **Session III 14:00-15:15** | **Session IV 15:45-17:00** |
| **28-08-2023Monday** | Introduction to Data Analytics and use of Statistical Concepts in Data Analytics | **Country papers on “Auditing in IT Environment” of respective SAIs/ Organisations** |
| **Mr. Karan Vohra, Dy. Director, O/o the C&AG of India, New Delhi** |
| **29-08-2023Tuesday** | Data Extraction and  Data Cleansing : Tools & Techniques | Application of MS Excel in Audit: Data-Applying Custom Formats and Layouts, Advanced  Conditional Formatting and Filtering:- Hand on Session | Application of MS Excel in Audit:  Advanced Formulas, Look Up Data with Function, Pivot Tables and Pivot Charts: Hand on Session | Application of MS Excel in Audit: case study/ Studies |
| **Mr. Rohit Anand, Sr. Administrative Officer, O/o the Director General of Audit (Central Receipt), New Delhi** |
| **30-08-2023Wednesday** | Application of Tableau in Audit:-Connecting to data, Simplifying and sorting data, organizing data, measures and dimensions, filters, simple graphs and charts, hierarchies, slicing data by date- Hands on Session & case studies | Application of Tableau in Audit:- Interactive dashboards and stories |
| **Mr. Gowthaman R, Dy. Director, O/o PDA, Industry & Corporate Affairs, New delhi** |
| **31-08-2023Thursday** | **Country papers on “Auditing in IT Environment” of respective SAIs/ Organisations** | Application of Power BI Tool in Audit |
| **Mr. Piyush Tiwari, AAO, iCISA Noida** |
| **01-09-2023Friday** | Application of IDEA in Audit: Grouping, Sorting, Indexing, Control totals: Hands on Sessions | Application of IDEA in Audit: Extraction, Summarization, Stratification, Ageing & Charting:- Hands on Sessions | Application of IDEA in Audit: case study/ Studies |
| **Mr. M. P. Hemantha Kumar, Sr. AO, O/o the C&AG of India, New Delhi** |
| **02-09-2023Saturday** | **Delhi Visit** |
| **03-09-2023Sunday** | **Social programme/Activity** |

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| 155 ITP III Week: Study Tour and Case Studies |
| **Date & Day** | **Session I 10:00-11:15** | **Session II 11:45-13:00** | **Session III 14:00-15:15** | **Session IV 15:45-17:00** |
| **04-09-2023Monday** | Application of Data Analytics Tool KNIME in Audit: Building Basic Workflow, Data manipulation: Hands on Session | Application of Data Analytics Tool KNIME in Audit: Data type conversion (Data preparation), Treating Missing values, Statistical Analysis and deriving insights about the dataset , Data downloading sorting errors:- Hands on Session | Application of Data Analytics Tool KNIME in Audit -Distribution of workflows: Predictive Analysis using KNIME: :- Hands on Session | Application of Data Analytics tool KNIME in Audit : case study/ Studies |
| **Mr. Deepak Viswanathan, SAO, O/o PDA Central, Kochi** |
| **05-09-2023Tuesday** | **Theme Country**  | Audit of Integrated Financial Management System (IFMS):- A case study |
|  | **Mr. J J S Anand, SAO, O/o RCBKC, Bengaluru** |  |
|  **06-09-2023 Wednesday**  | **Study Tour to Jaipur****(Includes visit to ……………………among other things)** |  | **Mr. Shivaji Chauhan, ACP, Delhi** **,**  | **Mr. Shashank Shekhar, Asst. Administrative Officer, Office of the Pr. Accountant General (Audit), New Delhi** |
| **07-09-2023Thursday** (Holiday on the occasion of Birthday of Lord Krishna) |
| **08-09-2023Friday** |
| **09-09-2023Saturday** |
| **10-09-2023Sunday** | **Social programme/Activity** |

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| 155 ITP IV Week: Emerging Technologies and Use of Technology in Audit |
| **Date & Day** | **Session I 10:00-11:15** | **Session II 11:45-13:00** | **Session III 14:00-15:15** | **Session IV 15:45-17:00** |
| **11-09-2023Monday** | One IA&AD One System - SAI India IT initiatives | **Country papers on “Auditing in IT Environment” of respective SAIs/ Organisations** |
| **Ms. R Monica, Director (IS-IV), O/o CAG of India** |
| **12-09-2023Tuesday** | Centralised Information Technology Billing System Being Operated by State Power Utilities in Uttar Pradesh | Field visit to GSTN |
| **Ms. Hansha Mishra Director, iCISA , Shri Sandeep Jaiswal, Sr AO & Sh. Abhinav , AAO** |
| **13-09-2023Wednesday** | Big Data & Data Analytics: Significance for Auditing | Big Data & Data Analytics: Guidance for SAIs | Audit of Dial 100  |
| **Mr. Naveen Kumar Bhansali, Chief Technology Officer, BlitzAL. And Adjunct faculty IIM Bangalore, Karnataka** |  **Mr D P Sahu** |
| **14-09-2023Thursday** | Introduction to Block Chain Technology: Concepts, Use of Block chain in Government | Use of Artificial Intelligence in Public Sector  |
| **Mr. Mohanraj Polurbalu****Rapid Qube Digital Solutions** | **Ms. Sharmistha Dasgupta Deputy Director General / Scientist-G , Sh. Mrityunjaya Singh, Scientist F`, NIC** |
| **15-09-2023Friday** | Audit of GSTN | **Valediction** |
| **Mr. S Vijay, Director, GST & Customs** |