154th International Training Programme

On

# Auditing in IT Environment

**(13th February to 10th March, 2023)**

## Course Schedule

## 154 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 |
|---|---|---|---|---|
| 13-02-2023 Monday | Briefing & Ice-breaking session | Introducing India/ Presentation by SAI India participant | Inauguration | |
| 14-02-2023 Tuesday | Digitisation in Government of India | | IS Governance & Management -IS & IS Security Frameworks, Capability maturity model | Frameworks for conducting audit of Information Systems: Standards and Guidance |
| | **Mr. Tanmoy Chakrabarty, Founder Director, Chakrabarty Consulting Services and Former Group Govt. Affairs Officer, Tata Sons Limited** | | **Mr. K. R. Sriram, Dy. CAG (CRA)** | |
| 15-02-2023 Wednesday | IS Application Controls | | Acquisition, Development and Implementation of Systems | |
| | **Mr. C S Bisht, Senior Director, STQC, Delhi** | | **Mr. Vikash Kumar, Director (IS-II)** | |
| 16-02-2023 Thursday | Information Security: - Concepts, Risks, Attacks, Goals for Security & Network & Application Security IS | | OWASP Top 10 vulnerabilities and Web Application Security | IS Operations and Business Resilience- A case study |
| | **Colonel Inderjeet Singh (Retd.) Chief Cyber Security Officer- Vara Technology Pvt. Ltd.** | | | **Mr. Vikash Kumar, Director (IS-II)** |
| 17-02-2023 Friday | Integrity issues in IT Systems: A case study on e-Procurement | | Information systems auditing process : Risk-Based approach to IS Audit Planning & Audit process activities | |
| | **Mr. Jitendra Kohli, Managing Director, ElectronicTender.com (India) Pvt. Ltd** | | **Ms. Suhasini Gotmare, Principal Director** | |
| 18-02-2023 Saturday | Visit to Agra | | | |
| 19-02-2023 Sunday | Social programme/Activity | | | |

# 154 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 |
|---|---|---|---|---|
| 20-02-2023 Monday | Introduction to Data Analytics and use of Statistical Concepts in Data Analytics<br><br>**Mr. Gaurav Rai, Director (CDMA) & Ms. Niti Sethi, Consultant (CDMA), O/o the C&AG of India, New Delhi** | | **Country papers on "Auditing in IT Environment" of respective SAIs/ Organisations** | |
| 21-02-2023 Tuesday | 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 |
| | **Rohit Anand, Sr. Administrative Officer, O/o the Director General of Audit (Central Receipt), New Delhi** | | | |
| 22-02-2023 Wednesday | Introduction to ERP Overview and benefits of ERP Database concept | Introduction to SAP, Organisation Structure, Various modules in SAP Navigation and familiarisation to menus and SAP screens | Auditing in SAP Environment | |
| | **Visit to GAIL** | | **Mr. Himakar Iyalapaka, AAO, DGCA, Hyderabad** | |
| 23-02-2023 Thursday | 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, RTC Chennai** | | | |
| 24-02-2023 Friday | 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. Gaurav Kumar Omee, Assistant Administrative Officer, RTI, Nagpur** | | | |
| 25-02-2023 Saturday | **Delhi Visit** | | | |
| 26-02-2023 Sunday | **Social programme/Activity** | | | |

# 154 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 |
|---|---|---|---|---|
| 27-02-2023 Monday | **Country papers on "Auditing in IT Environment" of respective SAIs/ Organisations** | | Use of remote sensing and GIS in audit | |
| | | | **Mr. R T Venkatasamy, Accountant General, O/o the Accountant General (Audit-II), Maharashtra** | |
| 28-02-2023 Tuesday | 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- Interactive dashboards and stories - Hands on Session & case studies | | Introduction to GSTN (preparation for Study Tour) | |
| | **Mr. Abraham Judah Cephas A, DAG, O/o the Pr. Accountant General (Audit-I), Tamil Nadu, Chennai** | | **Mr. Vishal Pal Singh, Senior Vice President at Goods And Services Tax Network (GSTN), Col. Pankaj Dikshit, Senior Vice President (Retd.) at GSTN & Mr. Naveen Agrawal, Asstt. Vice President at GSTN** | |
| 01-03-2023 Wednesday | **Study Tour (Includes visit to CEDAR, Bengaluru among other things)** | | | |
| 02-03-2023 Thursday | | | | |
| 03-03-2023 Friday | | | | |
| 04-03-2023 Saturday | | | | |
| 05-03-2023 Sunday | **Return from Study Tour** | | | |

## 154 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 |
|---|---|---|---|---|
| 06-03-2023 Monday | **Country papers on "Auditing in IT Environment" of respective SAIs/ Organisations** | | A case study of IT Audit using Artificial Intelligence **Mr. Venugopal G, Chartered Accountant** | |
| 07-03-2023 Tuesday | **Theme Country** | | Application of Power BI tool in Audit **Mr. Piyush Tiwari, Asstt. Administrative Officer (R&I)** | |
| 08-03-2023 Wednesday | **Holi** | | | |
| 09-03-2023 Thursday | Big Data & Data Analytics: Significance for Auditing | Big Data & Data Analytics: Guidance for SAIs | Introduction to Block Chain Technology: Concepts, Use of Block chain in government | GST chain: A case study |
| | **Mr. Naveen Kumar Bhansali, CA** | | **Mr. Mohanraj Polurbalu Rapid Qube Digital Solutions** | |
| 10-03-2023 Friday | One IA&AD One System - SAI India IT initiatives **Ms. Shubhangi, Director (Information Systems-III), O/o the C&AG of India, New Delhi** | | **Valediction** | |