Course Contents General Courses 2023-24

Sl.No.	Course Name	Modules/Topic Covered	Preferred Participant Profile	Duration
1.	Financial Attest Audit	Introduction to FAA, Audit Mandate, etc. Element and broad principles of accounting and basics of financial management in the entity Understanding the entity and the IT environment of the entity Role of Internal control and Internal audit in the entity with discussion on Case Studies. Audit Planning, Audit Planning Memorandum Identification of significant and non-significant audit areas with discussion on Case Studies Materiality and Risk assessment with discussion on Case Studies Audit Programme-Function and importance of audit programme Audit sampling and Analytical techniques with Case Studies Supervision and control- Standards and structure of supervision and methods of review and assurance required from the review of audit work. Auditing Standards of the CAG of India in particular and INTOSAI Standards Field work- Manner in which field audit is carried out and audit evidence is collected Auditing Standards of documentation and filing system and procedures Accounting Standards and disclosure requirementsMajor accounting standards of ICAI and awareness about the existence of others Principal of reporting-Reporting requirement and how to improve audit reporting with case study Drafting, summarization, conclusion and overview with case study	SAOs/AAOs	05 days
2.	Audit Reporting	1 Introduction to Audit Reporting: Covers key aspects of audit reporting as detailed in Level 2 and Level 3 of ISSAIs 2 Components of an audit paragraph: Focuses on following components of a paragraph in a report-Audit Criteria Condition (Evidence) Cause Effect Audit Conclusion Recommendation Case Study 3 Link between Report, Audit Objectives and Working Paper: Emphasis is on the linkage between	SAOs/AAOs	03 days

		audit objectives identified at the planning stage and the audit report. Covers: Audit Objectives & Issue Analysis Reporting against audit objective Working Papers Linkage between report, audit objective and working papers Case Study 4 Balanced and Fair Reporting: Focus is on: Characteristics of Audit evidence Balanced and Fair reporting Consideration of audited agencies' response and views 5 Compliance Audit Reports: Focus on compliance audit reporting requirements as envisaged in ISSAI 4100. Case Study. 6 Audit Report – Language and Structure: This covers: Audit Memos, Inspection Reports and Audit Reports sequencing audit findings and structuring an audit paragraph common pitfalls in the language used in audit reports 7 Style Guide: Focus is on the key requirements of the Style Guide issued by the		
3.	Seminar on Right to Information Act	Purpose and perspective effects of 'Right to Information Act (RTI)'. Transparency and accountability in administration. Salient features of the RTI Act. Procedure regarding when & how to use the Act. Exclusion under RTI Act, Information exempted from disclosure under the Act, areas out purview of the Act. Appeal provisions in the Act. Constitution, powers and function of Central and State Information Commission. Penalty provisions of the Act. Case study with an example.	SAOs/AAOs	02 days

4.	Performance	I An Introduction to Performance Audit. Issues of	SAOs/AAOs	05 days
	Audit Guidelines	Economy, Efficiency and Effectiveness.		
		Objective of Performance Audit.		
		Elements of Performance Audit.		
		Assurance and Confidence in Performance Auditing.		
		Outcomes of performance audits.		
		General outlay of Performance Auditing Guidelines.		
		Case Study.		
		(Chapter-I of Performance Auditing Guidelines		
		2014)		
		Mandate and General Principles for Performance		
		Audit.		
		General Principles,		
		Ethics and Independence,		
		Audit Approach, Audit Criteria, Audit Risk.		
		Communication.		

Skills, Professional judgement, due care and scepticism. Quality Control, Materiality,

Documentation. Case Study.

(Chapter-II of Performance Auditing Guidelines 2014)

Strategic Audit Planning and Selection of Audit Topics.

Strategic Audit Planning, Objective of strategic Audit planning, Strategic Audit Planning Process.

Annual Audit Planning Process, Selection of Audit Topics.

Interaction with audited entities and other stakeholders.

Periodic updating of the date and the risk profile. Case study.

(Chapter-III of Performance Auditing Guidelines 2014)

Planning Individual performance audits Understanding the entity/programme Defining Audit Objectives Scope of Audit

Determining the Audit Criteria
Deciding Audit Approach and Methods. Case Study.
Developing Audit Questions
Assess audit team skills
Utilisation of outside expertise.
Audit Design Matrix

Establish the timetable and resources
Intimation of Audit
Refinement or narrowing of objective and criteria.
Flexibility in the Audit programme.
Case Study / Group Discussion.
(Chapter-IV of Performance Auditing Guidelines 2014)

Implementing the Performance Audit Entry Conference, Issuance of Engagement letter, Field audit process, Entry Meeting, Data Collecting & Analysis.

Developing audit findings and conclusions,
Developing recommendations, Audit Finding Matrix,
Exit Meeting, and Supervision.
Case Study / Group Discussion
(Chapter-V of Performance Auditing Guidelines
2014)
Evidence and Documentation

C&AG of India's auditing standards,
Competence, Relevance, Sufficiency,
Factors affecting the evidence,

Types of Evidence, Sources of Evidence, Documentation, Working papers, Audit File	

Case Study & Group Discussion

(Chapter-VI of Performance Auditing Guidelines 2014)

The Reporting Process

Reporting Process, Audit observation, Draft audit report, Response of the entity, Exit Conference, Third party consultations, Observations of the headquarters on draft report.

Draft Final Report, Final report, Characteristics of a good report, Structure of the report, Enhancing the presentation and readability of the reports, Audit implementation cycle, Timelines of Performance Audit

Case study & Group Discussion.

(Chapter-VII of Performance Auditing Guidelines 2014)

Follow-up of performance audits.

Objective of the follow up programme, Assisting the Legislature, Effectiveness assessment, Continuous Improvement, Inventory of recommendations,

Annual follow-up programme

Case study & Group Discussion

(Chapter-VIII of Performance Auditing Guideline 2014).

Potential impacts of performance audit and Thematic audit and quality assurance. Case study & Group Discussion

5.	Audit Evidence	Basic Concepts: Definition of Evidence/Audit	SAOs/AAOs	03 days
		Evidence		
		ISA and ISSAIs on Audit Evidence in Financial		
		Auditing,		
		ISSAIs on Audit Evidence in Performance and		
		Compliance Auditing		
		Attributes of good Evidence		
		Introduction & Various Evidence Gathering		
		Techniques		
		Case Studies/Illustrations		
		Evidence Gathering techniques in Compliance		
		Audit		
		Comprehensive Case Study 1		
		Case Study 2		
		Audit Evidence in Financial Auditing- Basic		
		Concepts: Definition of Audit Evidence		
		Key concepts on Audit Evidence in Financial		
		Auditing,		
		Audit Evidence in Performance	2	
		Auditing-		
		Key Points		
		Competent, Relevant and sufficient Information.		
		Types of Evidence		
		Factors affecting Evidence		
		Procedures for obtaining evidence		
		Case Study and Exercises		

6.	Goods	and	Goods and Service Tax- An Introduction	SAOs/AAOs	05 day s
	Service	Tax	Limitations with the previous indirect tax structure		
	(GST)		Importance and Benefits of GST		
			Constitutional Amendment Act and GST Council Anti profiteering measure		
			Goods and Services Tax Registration: Law and		
			Business Process.		
			Purpose & Advantages of Registration under GST		
			Statutory Provisions		
			Migration of existing registration to GST, Person liable to obtain registration, Procedure to obtain		
			registration Compulsory Registration		
			Unique Identity Number (UIN)		
			Exemptions, Time Period for Registration, Surrender/		
			Cancellation of Registration Main features of GST Law		
			Levy of/and Exemption From Tax		
			The power to levy tax – Authority of Law		
			The incidence of tax, The liability of being taxed		
			Composition Levy (a special category of tax liability) E-commerce and its taxability		
			Exemptions from being taxed		
			Filing Of Returns & Matching Of Input Tax		
			Credit		
			Statutory Provisions, Summery of Returns		
			Outward Supplies, Inward supplies, Monthly Return		
			Person with Composition scheme TDS, ISD, Non resident Taxable Person, TCS		
			First Return, Annual Return, Final Return		
			Statement of person having UID		
			Input Tax Credit		
			Input tax credit (ITC) a key feature of		
			GST, Understanding ITC Pre-requisites for ITC, Allowance of ITC		
			Cross utilization of IGST & Fund Transfer,		
			Apportionment of IGST		
			Overview of the IGST Act		
			Introduction to IGST, Overview Of IGST Act		
			Transitional provisions		
			Statutory provisions -Under the Act, Under the Rules		
			Migration of existing registered taxable persons Transitional provisions - introduction		
			Transitional provisions relating to: Input Tax Credit,		
			Continuance of existing procedures, All claims		
			(pending as well as future) pertaining to existing laws		
			Meaning and Scope of Supply and Time and Valuation of Supply		
			Supply – Meaning and Scope, Time of Supply, Place		
			of Supply		
			Classification of Goods and services, Valuation		
			Payment of tax		

Introduction, Legal Provisions, Modes of Payment under GST

Maintenance of Taxpayer-wise Electronic Ledgers, Rules for Utilization of Amounts in Electronic Ledgers

ITC Utilization Rules, Rules for Discharging Liability

Provision of Interest on Delayed Payment of Tax, Provisions of TDS, Transitional Provisions w.r.t. Payment of Tax, GST Payment Process Overview

Frontend Business Process on GSTN Portal

Key Data-points, Structure of GSTN

IT Strategy, Rollout Strategy (Model-1 and Model-2 States)

Information Management

Demo of Registration, Payment and Return

Refund of Taxes

Statutory Provisions

Situation where refund would arise, Refund not admissible, Time Limit

Refund – General principles, Procedure for sanction, Refund claim by UN agencies, Consumer Welfare fund

Documents required

Assessment, Provisional Assessment & Audit

Self assessment, Provisional assessment Scrutiny of Returns, Assessment of Non Filers of Return, Assessment of un- registered persons, Summery assessment Audit by Department, Special Audit

Provision related to inspection, search, seizer, appeal and revision, arrest, offence, prosecution, penalty and compounding

Accounting Procedure under GST System

Taxes subsumed in GST, Challan under GST, Mode of Payment

Head of Accounts, Accounting procedure, Reconciliation & MOE ITC utilization and Apportionment of IGST, IGST accounting

Year-end Accounting Adjustments Role of CAG in GST Regime

CAG's mandate to audit receipts

What is new and different, Challenges And Way Forward

What we have done so far, Audit of GST – Strategy for 2018-19

7.	Audit of	Important Provision of GFR related to Procurement	SAOs/AAOs	03 day s
	Procurement and	of Goods and Services- Definition of Goods,		00 mm,
	Contract	Fundamental principles of public buying ,Different		
	Management	mode of Procurement		
	Management	Mode of Tendering for Procurement of Goods and		
		Services		
		Berrices		
		Contract Management- Standard conditions of		
		contract including Post Contract Management Role		
		of Internal Finance in Procurement cases		
		Introduction to Delegation of Financial Power Rules		
		1978		
		An Overview of Important Provisions of Delegation of		
		Financial Power of UP and MP State		
		Process of e-procurement CVC Guidelines on		
		Procurement and Contracts		
8.	Audit PRIs/U of	Panchayat Raj Institution (PRI): Introduction,	SAOs/AAOs	05 days
	including	organisational set up, constitution of Gram		
	construction w	Panchayats (GPs), functions of GPs, Monitoring of		
	in ULBs, Rece	GPs, audit mandate and audit of Assets-Management		
	of ULBs	and works executed by GPs. Constitution for		
		establishment of Kshetra Panchayat (KP) and Zila		
		Panchayat (ZP), duties and functions of KP and ZP.		
		Urban Local Bodies (ULBs): Introduction,		
		composition of three tier ULBs, 74th Constitutional		
		Amendment Act., 1992 & devolution of Powers.		
		Formats of Accounting prescribed by C&AG. Audit		
		of GP accounts and other relevant records.		
		Preparation of Budget & its approval in ULBs. Audit		
		of monthly/Annual accounts of ULBs.		
		Fund Flow: - Grants in Aid and Loans from		
		Central/State Governments to PRIs through different		
		sources and provisions or withdrawals of Funds.		
		Audit of ZP & KP accounts, Audit of Works accounts		
		of ZP & KP. Case Study.		
		Auditing Mandate & Auditing standards for audit of		
		ULBs.		
		Audit of various Taxes/Charges/ Licence fees levied		
		by ULBs.		
		Procedures for execution of works in ULBs and audit		
		trail. Guide lines of CAG for Technical Guidance and		
		Supervision (TGS)./ Auction procedures in ULBs.		
		Audit of Works Accounts:- procedures for execution		
		of Works by PRIs, works records viz., Project		
		Register, Works Register, Cash Book,		
		Tender/Contract Bonds etc.		
		Accounting system followed in ULBs, concept of		
		accrual basis of accounting, preparation of Receipt &		
		Payment/Income & Expenditure accounts, trial		
		balance and Balance sheet including closing of		
		accounts.		
		Management of land, environmental issues in		
		PRIs/ULBs works and receipts of PRIs. Case Study		1

9.	Statistics and	Descriptive Statistics:	SAOs/AAOs	05 day
	Sampling in Audit	What is data? (Qualitative vs. Quantitative data):,		
		What is an Attribute?, Frequency distribution of data.		
		Concept of random variable.		
		Measure of Central Tendency (Mean, median, and		
		Mode): Concept, measure & applicability, Measure		
		of Dispersion (Range, Standard Deviation &		
		Coefficient of variation): Concept, measure &^		
		applicability		

Classical definition of probability: Concepts with examples, Probability distribution (Binomial, Poisson & Normal Distribution): Concept & applicability Practical:

Using Excel /IDEA package demonstrate different statistics using live data and interpret the statistics to draw conclusions about the distribution of the data Statistical Sampling:

What is statistical Sampling?, How it is different from judgmental and convenience sampling?, Advantage of statistical sampling.

What is a Random Number Table? Its relevance in statistical sampling and concept of sampling frame. Different techniques of statistical sampling: Simple Random Sampling (SRS), Systematic Random

Sampling, concept, definition and applicability.

Methodology of drawing samples using SRS& systematic (both) Linear Systematic and Circular systematic) using a) Random Number Table & b) using IDEA package.

Estimation formulae for estimation of population average, total and proportion of an attribute and corresponding estimation of standard errors: (only the formulae to be state, without proof)

Demonstration with various examples is very important.

Statistical Sampling (contd.):

Probability Proportional to Size (PPS) sampling : concept, definition & applicability.

Different techniques of drawing samples for PPS design (Cumulative Total method, Prof.Lahiri's method of drawing samples).

PPS – Systematic sampling & its method of drawing samples.

Demonstration may be given with examples

Estimation formulae for estimation of population average, total and corresponding estimation of standard errors & concept of multiplier in sampling. (only the formulae to be stated without proof) Practical:

Problems on selection of samples and evaluation of few characters of interest using SRSWR, SRSWOR, Systematic, PPS and PPS- systematic design.

Statistical Sampling (contd.)

Stratification in sampling

Cluster Sampling.

Stratification vs. Cluster Sampling

Advantage of stratification.

Estimation formulae under stratification Demonstrate with examples.

Multistage Statistical Sampling, with particular reference to two-stage sampling: Concepts & applicability.

Estimation formulae using two-stage design-

(a) 1st stage as PPSWR and 2nd stage as	
SRSWOR.	
(b) SRSWOR in both the stages Practical:	
Selection of samples under a two-stage stratified	
design from a given set of data and estimation of two	
characteristics of the population from the selected	
sample.	
Audit Sampling:	
What is Statistical Audit Sampling	
Its advantages in audit	
The risk of statistical sampling	
Attribute vs. Variable Sampling	
Attribute sampling plan, determination of optimum	
sample size alongwith concepts of confidence level,	
precision & population deviation rate.	
Variable Sampling plan determination of optimum	
sample size along with concepts of confidence level,	
precision & population standard deviation.	
Un-stratified Mean Per Unit.	
Stratified Mean Per Unit.	
Concept of alpha & beta risk & their relevance in audit	
hypothesis testing.	
Concept of tolerable misstatement & materiality in	
audit hypothesis testing. Compliance test vs. Substantive test in audit	
Monetary Unit Sampling (MUS) & Demonstration of	
planning and selection of samples using IDEA.	
Practical examples of selection of samples using	
IDEA-MUS.	
Risk assessment & sampling in audit	
Risk based analysis & the risk model in audit.	
Risk perception as input to statistical sampling	
Case Studies	
Discussion on risk assessment and statistical	
sampling with case studies	
10. Special Course on Compliance Audit Guidelines SAOs/A	AOs 06 days
Railway Audit Internal Control Evaluation Manual	
Audit of PPP projects	
Environmental Auditing	
Audit Quality Management Framework	
(Course Module to be finalized by PDA, NCR,	
Allahabad)	
Audit of Procurement	
Audit of Contract Management	
Risk Analysis	
Statistics of Sampling	
Audit Reporting and drafting of Audit Report.	
(Course Module to be finalized by PDA, NCR,	
Allahabad)	

11.	Compliance	General Principles for Compliance Audits	SAOs/AAOs	03 days
	Auditing	Compliance Audit Plan		
	Guidelines &	Planning Compliance Audits		
	Risk Analysis	Conducting Compliance Audits		
		Reporting Compliance Audits		

12.	Workshop on	Recruitment Rules, Procedure for direct recruitment	SAOs/AAOs	06 days
	Establishment	and transfer on deputation.		
	and	Reservation in recruitment and promotion.		
	Administration	Maintenance of post based roster – L shape roster.		
		Procedure for de-reservation of reserved points.		
		Promotion policies. Departmental Promotion		
		Committees. Selection and non-selection promotion.		
		Sealed cover procedure.		
		Maintenance of APAR. Reporting and Review of		
		APARs. Custody of APARs. Communication of		
		adverse remarks and Record Management		
		Code of Conduct for Central Govt.		
		servantsAnalytical exposition of the CCS (Conduct)		
		Rules 1964 and various GOI decisions thereunder.		
		Prevention of Corruption Act, 1988- Salient features,		
		various orders and instructions issued		
		by GOI/CCCBC/CAG on vigilance matters		
		Suspension, Deemed Suspension and entitlements		
		and regularization. Unauthorized absence FR 17&17		
		A		
		Preliminary Inquiry/Show cause notices, Framing of		
		Charge Sheet		
		Disciplinary proceedings- Inquiry proceedings and		
		Inquiry report. Major and Minor Penalties under CCS		
		(CCA) Rules.		
		Role of Inquiry and Presenting officer in inquiry		
		proceedings. Examination and cross Examination of		
		witness. Action on Inquiry report		
		Discussion on Case studies and Case Laws		
		Types of Personal claims, AC and DC bills- their		
		processing and time limit.		
		Record management- Preservation and Weeding out of		
		old records		
		Office Budgeting- Departmental Accounting System,		
		General Financial Rules 2005, Delegation of		
		Financial Powers Rules1978		
		Central Govt. Accounts (Receipts and Payments)		
		Rules 1963, Preparation of R.E. & B.E. and Control		
		over Expenditure. Staff proposal.		
		Purchase Procedure- Procurement of goods and		
		services, contracts, security deposits, power of HOD.		
		Introduction to Code of Ethics, RTI Act.		

13.	Ind AS	Introduction to IND-AS. ICAI & IA&AD initiative with IND-AS. GSR 111(E) dated 16 February 2015, G.S.R. 365 (E)	SAOs/AAOs	05 days
		dated 30th March, 2016, PIB notification IND_AS Framework		
		Ind _ AS conceptual framework, Presentation of Financial Statements (Ind _ AS 1) and Fair Value Presentation (Ind _ AS 13). Non-current assets, agriculture and inventories		
		Property, plant and equipment (Ind AS 16), Impairment of assets (Ind AS 36), Government		

Grants (Ind_AS 20), Borrowing Costs (Ind_AS 23), Non-current Assets Held for Sale and Discontinued

Operations (Ind-AS 105) Investment Property (Ind-AS 40), Intangible Assets (Ind-AS 38), Agriculture

(Ind-AS 41), Inventories (Ind_AS 2) and Exploration

for and Evaluation of Mineral Resources (Ind_AS 106)

Foreign currency in individual financial statements The Effects of Changes in Foreign Exchange Rates (Ind_AS 21).

Leases

Leases (Ind_AS 17)

Related parties

Related Party Disclosures (Ind_AS 24) Employee Benefits

Employee Benefits ((Ind_AS 19)

Accounting policies& estimate, Error, provisions, contingency and events after balance sheet date

Accounting Policies, Changes in Accounting

Estimates and Errors (Ind_AS 8), Events after the

Reporting Period (Ind_AS 10)

Provisions, Contingent Liabilities and Contingent

Assets (Ind_ AS 37)

Segment reporting

Operating Segments (Ind_AS 108)

Share Based Payments

Share_based Payment (Ind_AS 102) Income Taxes

Income Taxes (Ind_AS 12).

Financial Instruments

Financial Instruments: Disclosures (Ind_AS 107)

Financial Instruments (Ind _ AS 109), Financial

Instruments: Presentation (Ind_ AS 32) and Insurance

Contracts (Ind-AS 104)

Consolidated Financial Statements

Business Combinations (Ind-AS 103), Consolidated

Financial Statements (Ind_AS 110), Joint

Arrangements (Ind_AS 111), Disclosure of Interest in

Other Entities (Ind_AS 112), Separate Financial Statements(Ind-AS 27) and Investments in

Associates and Joint Ventures (Ind. AS 28)

First time adoption of Ind-AS	
First-time Adoption of Indian Accounting Standards	
(Ind_AS 101)	
Revenue	
Revenue from Contracts with Customers (Ind-AS	
115) Regulatory Deferral Accounts (Ind-AS 114)	
Revenue (Ind-AS 18), Construction contracts (Ind-	
AS 11)	

		Residual Matters Statement of Cash Flows (Ind-AS 7), Earnings per Share (Ind-AS 33), Interim Financial reporting (IndAS 34) and Financial reporting in hyperinflationary economies (Ind_AS 29)		
14.	E-procurement (GeM) & CPPP	Provision of GFR 2017, Creation of primary account of HOD, Creation of secondary account of buyer, consignee and DDO, Practical sessions	SAOs/AAOs	02 days
15.	Audit of Autonomous Bodies(SAR)	Legal Framework for Audit of Autonomous Bodies Preparation of Financial Statements Common Format of Accounts and Financial Statements Audit checks for certification of Annual Accounts of ABs. Accounting Standards prescribed for ABs. Format of SAR/Audit Certificate of ABs. Drafting and contents of draft SAR/Management letter Finalizations of SARs Case Study Evaluation of Internal Control Mechanism	SAOs/AAOs	05 days

16.	Audit of Public	Public Works Department (PWD): Introduction,	SAOs/AAOs	05 days
	Works and	Works and Projects, functions, organizational set up,		
	Projects including	accounting system and submission of account		
	Irrigation	records, audit by Accountants General- mandate and		
	Projects	systems of audit.		
		Initial records to be maintained in a PW office. Duties		
		and power of Executive Engineer (EE), Assistant		
		Engineer (AE), Junior Engineer (JE) and Divisional		
		Accountant (DA).		
		Works Execution: Administrative Approval and		
		Financial Sanction, Planning, Preliminary Estimate,		
		Detailed Estimate, Technical Sanction of Estimates.		
		Important check points to be examined in the PW		
		audit relating to works executed through Piece Works		
		Agreement (PWA), Work Order, and Contract		
		Agreements viz., comparative cost and variance		
		analysis. Arbitration Law including procedures and		
		provisions for dealing arbitration matters.		
		Audit of PW: Central Audit- Audit notes, local		
		inspection-Scrutiny of records- analysis of a specific		
		work, issue of audit memo, Preparation of Audit		
		Inspection Reports and their Submission to AG w.r.t.		
		scheduled programme.		
		Audit of Stores and Stock in light of various		
		guidelines issued by the C&AG.		

		Review Of Irrigation Projects: Introduction,		
		definitions and follow up of Public Works Procedures		
		including deviations from it, if any. Case Study-		
		Irrigation Project.		
		Review of irrigation Projects cont'd.		
		Review of Large Projects (other than Irrigation):		
		Introduction, definitions, methodology, audit		
		findings and recommendations with a case study. Audit of Central Government Sponsored		
		Audit of Central Government Sponsored SchemeIntroduction, methodology for audit and		
		submission of Audit Report.		
		Case Study- Pradhan Mantri Gramin Sadak Yojna.		
		Manpower audit in PWD/or as decided by the Course		
		Director.		
		Audit of PW Deposits and Transfer Entries (TE)		
		including checking of fictitious TEs.		
		Works Analysis: Introduction, records related to the		
		particular work, methodology, process and		
		techniques. Audit of Suspense and Remittance Balances in PWD,		
		reconciliation of Divisional Transactions with		
		Treasuries & Banks and scrutiny of Form-51 and		
		Bank Reconciliation Statements.		
		Thrust areas in Audit of PW and Projects including		
		Irrigation Projects to be explored for finding potential		
		audit findings.		
		Salient features of Performance Audit of PWs and		
		projects including Irrigation Projects.		
		Drafting and finalising of Performance Audit Report on Public Works and Projects including Irrigation		
		Projects.		
17.	Disciplinary	Procedure for direct recruitment and deputation.	SAOs/AAOs	05 days
17.	Proceedings,	Preparation of staff proposal Reservation in	51105/111105	os aays
	Conduct Rule, CCS	recruitment and promotion. Maintenance of post		
	(CCA) Rule and	based roster – L shape roster		
	Vigilance Cases	Promotion policies. Departmental Promotion		
	and Impact of	Committees. Selection and non-selection promotion.		
	different penalties,	Sealed cover procedure.		
	disposal of	Maintenance of APAR. Reporting and Review of		
	Complaint/Court Cases on Service	APARs. Custody of APARs. Communication of adverse remarks and Record Management		
	matters.	Suspension, review of entitlements and		
		regularization. Unauthorized absence FR 17&17 A,		
		Prevention of corruption Act 1988-Salient features,		
		provisions in CCS (Conduct) Rules relevant to		
		vigilance matters & how to handle dilatory tactics.		
		Salient provisions of CCS (Conduct) Rules. Inquiry		
		proceedings and Inquiry report. Major and Minor		
		Penalties under CCS(CCA)Rules		
		Role of Inquiry and Presenting officer in inquiry proceedings. Examination and cross Examination of		
		witness.		
		Disciplinary proceedings. Procedure for drafting the		
		charge sheet, Case study & Valediction		
	1	<u>-</u>		

18. Auditir Standa (ISSAI	Level Two ISSAIs	SAOs/AAOs	03 days
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10	MCTD Level 2	Concept of Volume or 1 '45 Classicate'	A A Og/ S A Og	06 deve
19	MCTP Level-2	Concept of Values and its Characteristics; The impact of personal values and community values on individual and society; Concept, Definition, Need and Forms of communication; game play and communication process; Barriers of communication; Absence of clarity; Effective communication; Social skills and etiquettes; Active Listening Skills; CAG's media policy; Discussion on Group Dynamics its concept, function, different theories etc; Explaining the importance of Motivation, Different theories; Improving work performance by Motivation; Financial Market and Capital Market; Concept of Public Finance, views and opinions of some economists about Public Finance; Importance of Public Finance its nature, components and impact; Differences between Public and Private Finance; Principles of Public Finance; Union Budget and its components Addressing Personalities; Addressing specific morale issues; What is Big data? Big data dimensions.	AAOs/ SAOs having coming completed 07 years of service	06 days
		Adopting Big data approach in auditing. IAAD Big Data Policy and guidelines; What is IT System? Risks associated with IT		
		Systems. Cyber security, different kind of cyber-attacks and protective measures; IT Act 2000: It's components, structure, applicability, different players and major		

		provisions. CERT-In, Leveraging the entity's IT System and data in audit. Personal Ethics, Professional Ethics; Code of Ethics Gender Sensitization; Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013 Basics of Environment and Sustainable Development; SDG: our commitments; Introduction to the 2030 agenda for Sustainable Development and the Sustainable Development Goals (SDGs); Niti Ayog's role in SDG		
20	MCTP Level-3	Brief introduction and presentation on overview of communication, communication with Superiors, Peers, Team Members & Internal Audit Teams, Audited organisations, State Government offices, General Public & Media; salient features of Communication Policy, to improve presentation skills, to prepare for meetings and how to draft written correspondences; Analytical thinking	AAOs/ SAOs having coming completed 12 years of service	06 days
		How to improve analytical thinking skills; Identifying a problem, Barriers to problem solving, Attitude that kills creative ideas, What should one do when a problem is encountered, PDCA model of methodical problem solving; Time and time management; What is Stress? Symptoms of Stress, Causes of Stress and recognizing stress levels, Handling Stress – Steps to combat stress;		
		e-Governance, National IT Policy 2012, National e-governance plan, Major Core infrastructure components of e-governance, Key benefits of e-governance, Mission Mode Projects -Central MMPs, State MMPs, Integrated MMPs; Introduction to eoffice, Role of e-office in e-governance, Components of e-office : File Management		

System, e-Leave, e-Tour, SPARROW, KMS etc.,e-HRMS (Manav Sampada)-Features, benefits;

Role change management - Setting the mindset on Change and its acceptance in our Personal and Professional life, Introduction to the role of Change agents and their impact; Relationship of Change and Change Agents in Personal and Professional Live; Professional Requirement: Roles and Challenges of C&AG Organization, Actual duties and responsibilities to be taken up and adapt oneself with the sense of acceptance to the New Role in the Organization;

General introduction to concepts of Management of Government finances – fiscal health of union and states; Government accounts; Government finances- sources of revenue and types of expenditure, Financial position of Central and state governments; Features of Fiscal policy.

The increased volume of data due to digitalisation initiative of the governments, opportunities and challenges to the auditors in conducting audits; the need for data analysis and its methodology; conducting audits in the present pandemic situations and the new emerging trends in remote audits; Auditing in IT environment concepts; opportunities and challenges in conducting audits when the data is increasingly available in electronic form instead of annual form; CAAT tools available for audit; Constraints in conducting audits in the present pandemic situation; concepts of remote audit; opportunities and challenges in conducting the audit remotely;

Concept of Teams and Team Dynamics, the process of Team Development, the features and strategies to build High-Performance Teams, the process of effective brainstorming, the importance of consensus

building in teams, Team Conflicts and types of conflicts, Steps for Conflict Resolution, Thomas Kilman Model of Conflict Management, Apply the above concepts in a simulated group activity

Audit Quality Management Framework: Importance of Stakeholder engagement, Good practices to meet Stakeholders' expectations, Accessibility to records, Relationship with the PAC/COPU

Introduction to GRC, Governance, Risk Management, risk identification, risk analysis, risk assessment and response to risk, Risk management in IAAD, Audit Risk and its types, Audit Risk Model, Importance of Risk Based Audit, Stages of Risk Based Audit; CAG's Internal Control Evaluation Manual, Limitations of Internal Control, Fraud and Forensic Audit; Public

Expenditure and Causes and Growth of Public Expenditure, Composition of Public Expenditure, Principles Governing Public Expenditure, Fiscal Responsibility and Budget Management Act and its objectives, Important Definitions forming the basis for understanding the FRBM Act, Salient Features of the FRBM Act, Kelkar Committee, Strong points and limitations of the Act.

Define Revenue, the history of revenue system in India, Tax and non-tax revenue and Direct and Indirect taxes, Union Taxes and their types, State Taxes and their types, Characteristics of a Good Tax System; The meaning of environmental crisis, Environmental issues, Effects of Environmental issues, Measures to prevent environmental crisis: Meaning Environment and Environmental governance; Importance of Environmental governance; Evolution of Regulatory framework for Environmental protection and different levels of authority; Salient

	features of Important acts and policies; Importance of Environment and meaning of Environmental pollution, Management of different kinds of pollution: Air Pollution – Meaning, Source, Effect, and measures, Water Pollution – Meaning, Source, Effect, and measures, Waste Management – Meaning, Source, Effect, and measures; Conservation of forests – Importance, causes and measures	

21	MCTP Level-4	Government to Business (G2B) and Government to Customer (G2C) initiatives in e-Governance—National e-Governance Policy (NEGP), MMPs, Critical view of the important e-Governance Projects with reference to Audit Reports; Future of Auditing & Cyber Security—Remote Audit, Artificial Intelligence(AI), Internet of Things (IoT); Gender mainstreaming in Government policy and programme; Effective Communication—Communication skills on technical issues, constructive engagement with the client organisation; Funding three levels of government—distribution of revenues among Union, States and Local Bodies, impact of Finance Commission recommendations and Goods and Services Tax(GST) Council decisions; Leadership—Types of leadership—Characteristics/traits of effective leadership in the context of administrative, audit and accounting functions; Central Policies and Guidelines on IT Projects—Ministry of Electronics and Information Technology (MeitY) guidelines regarding IT Projects and Web Portals, Government of India guidelines in use of Open Source applications, overview of Integrated Financial Management System(IFMS) & Public Financial Management System(IFMS) and ethics—ethical aspects of leadership, emotional intelligence in context of leadership roles, roles of managers and	AAOs/ SAOs having coming completed 17 years of service	06 days
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leaders, power authority, accountability and delegation of authority; Environmental Challenges in India; SDGs-the India story – National Strategy for achieving SDGs; SDGs and the challenge of Gender equality -gender budgeting, GoI schemes like 'Beti Bachao Beti Padhao'; Public Debt-Classes and purpose of public debt, effect of public debt on the economy; Performance Management Methods of performance management-counselling, mentoring and coaching Talent management-nurturing and continuous learning Performance feedback and reviews, identifying performance problems, the negative effects of criticism and importance of positive reinforcement; **Understanding Enterprise Resource** Planning(ERP)Systems – Advantages and Risks in ERP systems implementation, various ERP systems in vogue in Public Sector Enterprises(PSEs)and Autonomous Bodies(ABs); Cloud computing-Advantages, security issues, the various service models of cloud

Course Contents IT Courses 2023-24

Sl. No.	Course Name	Modules/Topic Covered	Preferred	Duration
			Participant	
			Profile	

1.	Audit in IT	Ice Breaking Session	(For AAOs/	06 days
	Environment	Entry Knowledge Test (EKT)	SAOs. only)	
		Understanding IT environment- Challenges and	3,	
		opportunities		
		Importance of controls with specific reference to		
		Application Controls		
		Introduction to CAATs – IDEA and Excel		
		Excel as data analytic tool- Features of Excel		
		(we intend to cover the aspects relating to following		
		underlining the purpose for which these are used as		
		Audit Tool)		
		Conditional formatting		
		Filter including Advanced filter Pivot Table		
		Excel functions – User defined functions		
		Numeric		
		Text		
		Conditional		
		Date and time		
		Financial		
		Aggregation		
		Creating Projects – Managed and External, Import of		
		data from diverse formats –Excel, Access, csv, text;		
		understanding data using the field statistics, Checking		
		validity of data through Control totals, creating		
		current documentation of tasks performed using the		
		history property, Project Overview.		
		Importing of PDF/PRN 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		
		Analysis		
		Basic data analysis in IDEA – Duplicate Key		
		Detection/Exclusion, Gap Detection, Summarization.		
		Data Extraction – Direct Extraction, Key value		
		extraction, Top/Bottom Records extraction, Indexed		
		Extraction		
		Working with multiple databases – Join, Visual		
		Connector, Append, Compare.		
		Commonly used @ Functions in IDEA, introduction to #functions		
		Stratification of Data, Aging analysis, Sampling		
		Exporting Data from IDEA to other formats, Creating and Printing Reports in IDEA		
		Way Forward – Overview of Qlikview		
		Way Forward - Overview of Qifkview Way Forward - Overview of Tableau		
		may 1 of ward -Overview of 1 adjeau		

2.	Advance	1. Introduction to DBMS and RDBMS. Concept of	For those who	08 days
	Course On MS	Database & Table.	have	
	Access	2.Overview of Access, creating database, Objects of	undergone	
	(Level-II	MS Access, Creating table in design, datasheet view,	training in	
	Course)	define field type, modifying, editing field, define	MS Office or	
		field properties, applying validation in a field.	have basic	
		3. Primary key concept & indexes. Data entry	knowledge of	
		through input mask, Validation, Adding, Editing	Computer	
		&deleting Records, Hiding column Freezing columns.		
		4. Creating Relationship between Tables,		
		Adding OLE objects Fields to a Table. Importing &		
		Exporting data between other programs – dbase IV		
		Text files, MS Excel. Data Entry Shortcuts.		
		5. Creating Relationship between Tables,		
		Adding OLE objects Fields to a Table. Importing &		
		Exporting data between other programs – dbase IV		
		Text files, MS Excel. Data Entry Shortcuts.		
		6. Creating Queries through Design and		
		datasheet view, Simple Query wizard Sorting. Query		
		Criteria. Query properties & Field Properties. Queries		
		using SQL commands and functions cross tab query		
		and duplicate query.		
		7. Form Design using Auto form – Columnar /		
		Tabular / Datasheet view. Form Design through form		
		wizard, Form Design without Form wizards Adding &Editing labels.		
		8. Bound Unbound and Calculated Controls in		
		Forms. Text Box Controls, Combo box, List Box		
		Controls. Creating a single Column Report & Group		
		Data Report through Report Wizard, creation of		
		switchboard		
		9. Creating a Report and Adding Controls,		
		Sorting & Grouping through Design view Report		
		Header, Page Header, Detail Footer etc. Adding		
		Graphs to reports.		
		10. What is Macro, Creating a simple macro,		
		Use of functions in Access. Page ins etc.		
		11. Database security viz user and group		
		permission, password etc.		
		12. Demonstration of some sample database		
		software.		
	1			

3.	Advance	1. Features of MS Excel, Starting MS-Excel,	For those who	06 days
	Course on MS	Creating/Opening Workbooks, Moving around in a	have	00 44)5
	Excel	Work Sheets & Work Book, Saving and closing a	undergone	
	(Level-II	workbook, Finding a workbook, Moving around a	training in	
	Course)	sheet, Inserting & deleting sheets, Renaming sheets,	MS Office or	
		Moving & Copying sheets, Page Setup, Print Preview,	have basic	
		Printer setup, Various printing commands.	knowledge of	
		2. Data Entry Techniques, Entering Text/	Computer	
		Numbers/Date & Time, Creating a series,	1	
		Customizing Auto Fill, Editing a worksheets,		
		Checking spelling, hiding and Un-hiding columns,		
		rows and gridlines, Finding & Replacing Text/		
		Numbers, Checking Spellings, Header/Footer, Page		
	1			
		No., Footnotes, Inserting line, Boxes, Auto-shapes,		
		objects, WordArt etc. on Worksheet.		
		3. Cell Referencing, Ranges, creating formulae,		
		Copying and Moving Formulas.		
		Applying formulas and functions in Excel sheet,		
		Protecting, hiding and Un-hiding worksheet / Cells/		
		Columns/ranges and its content, Sorting and filtering		
		work, Sorting data in list, Filtering a list Using Auto		
		Filter, Copying Filtered data to another location,		
		Working with filtered list, Automatic subtotals sorting		
		Subtotalled list. Preparing a Subtotalled list as a		
		report.		
		4. Linking of worksheets, Controlling		
		calculations, Aligning worksheet data, Formatting		
		worksheets, Formatting Fonts, Applying Borders,		
		Patterns and colours, Number, date and time Format,		
		Copying Formats, Using styles to save and apply		
		format combinations, Apply format automatically,		
		Importing worksheet in MS-Word.		
		5. Creating, modifying and formatting chart,		
		Enhancing Charts, Saving Custom Chart Formats.		
1		6. Understanding Lists & Databases: Defining		
1		Lists, Records & Fields, Working with databases,		
		formatting labels, Creating a database, Entering data		
		using data entry form, Data validation parameters,		

Error messages, Importing and exporting data to/from

MS Excel.

4.	DATA Analytics	Introduction to Data Analytics: Basic Concepts: Data, types of data: String, numeric, date; types of analytics; Descriptive Analytics: Statistical Approaches in Analytics: Central Tendencies (Mean, Median, Mode) KNIME: A Broad overview; Build a basic workflow; Data downloading sorting errors; Property tax data Statistical Approaches in Analytics: Spread and Shape of Distribution: Range, Skewness, Kurtosis, Standard Deviation, Variance, Interquartile range, Box plots Exposure to and Application of multivariate Statistical concepts: Correlation; Regression Analysis Application of Statistical concepts in Knime using Property Tax Data; Deriving insights from Property Tax data. Exercise/Case study using KNIME: Defence Pension Case study: Data import, Manipulating, Data type conversion (Data preparation), Treating Missing values, Statistical Analysis and deriving insights about the dataset; Text Processing and Other features in KNIME: Report Generation; Repeatability; Database connectivity; Distribution of workflows; Text Processing in KNIME; Tableau: Data downloading; Database Connectivity; Manipulation; Visualisation, Calculated fields; Filters; Hierarchy, Dashboards	For those who have undergone training in Level-II or have basic knowledge of Computer	05 days
		Other features in Tableau: Story, Distribution of workbooks Tableau Exercise/ Case Study: Analysing data, Deriving Insights; Identifying risk areas, building dashboards. Principles of Visualisation Consolidation of Concepts; Data Analytic Principles and Approaches		

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6.	Workshop on	1. Overview of Windows O.S. and its use.	Those who	10 Days
	IT Audit &	2. SYSTEM DEVELOPMENT LIFE CYCLE	have	
	IDEA (level-	and its audit	undergone	
	III course)	3. Various General IT Controls and Application	_	
		Controls, Audit points.	Level-II or	
		4. Performance Audit in IT Environment.	have good	
		5. Overview of IDEA, various features and	knowledge of	
		functions of IDEA.	computer.	
		6. Downloading, including exercise 1,Use of	•	
		IDEA features followed by Exercise to practice		
		analysis function for checking duplicates, indexing,		
		summarizing and checking field statistics. (Exercise		
		2),		
		7. Using @ Functions in IDEA		
		8. Exercise related with downloading of MS		
		ACCESS database file, creation of virtual fields,		
		duplicate records' detection and record extraction.		
		(Exercise 3) 9. Exercise to practice IDEA features		
		useful in conduct of Financial Audit. (Exercise 4). 10.		
		Exercise 5: Use of IDEA in Financial Audit.		
		11. Exercise 6: Use of IDEA in Value For Money		
		Audit.		
		12. Exercise 7: Use of IDEA in Accounts		
		Receivable Audit, downloading of prn file in idea.		
		13. Exercise 8: Use of IDEA in Accounts Payable		
		Audit and Fraud Investigation.		
		15. Exercise 9 : Use of IDEA in Inventory		
		Audit.		
		16. Import of data applying ODBC for database		
		maintained in ORACLE, MS ACCESS, MS EXCEL		
		etc.		
		17. IS security guidelines of headquarters.		
7.	IT Concepts,	1. Significance of Information Technology In	Group 'B'	08 days
	MS-Office &	Audit & Accounts.	Officers	0 0 mmj 0
	Internet	2. Concepts of Information, Computer and its	01110015	
	(Level-II	components, Computer Classifications, Different		
		components of a Digital Computer, Stand alone		
	course)	• •		
		Systems and Multiuser Systems, Various peripherals		
		used with Computers, Storage concepts in computer,		
		Organization of files in computer.		
		3. Concepts of Software, Types of Software,		
		Computer Languages, Operating System Concepts,		
		Task of Operating Systems, Difference of Operating		
		Systems in Single & Multi User Systems, Brief idea		
		about various OS viz. DOS, Unix, Windows etc		
		4. Definition of GUI. Windows an overview.		
		Components of Windows;		
		,	<u> </u>	

		5 Ominion of Ma Wand, Wand and and		
		5. Overview of Ms-Word: Word processing,		
		preparing documents and its editing. Formatting page,		
		paragraph and Character etc.		
		6. Creating and formatting table, Printing		
		documents, Header & Footer, Mail Merge,		
		7. Page numbering, page break, bullets and		
		numbering, Borders and Shading		
		8. Creating and formatting Worksheet,		
		Formatting Cells, Applying simple formulas		
		9. Overview of Database Management Systems,		
		Difference between RDBMS & DBMS, Overview of		
		MS-Access- Creating database, Table, Primary key,		
		Validations checks etc,		
		10. Creation of Queries, Forms and generation of		
		reports in MS- Access.		
		11. Overview of MS-PowerPoint : Creation of		
		slides, formatting of slides, setting animations etc		
		12. Computer communication need for data		
		transmission over distances. Networking of computer,		
		LANs its need and advantages, sharing resources		
		(computer files & equipment). Inter user communication, cost, training, upkeep and security.		
		¥ 1 1		
		Types of LANs and Transmission media. Introduction		
		on WAN, definition and uses.		
		13. Introduction to the Internet, Internet facilities		
		(email, world wide web 'www', and e-commerce) and		
		Web Browsers connecting Internet and Surfing the Net		
		etc.		
		14. Creation of Email Account, Sending and		
		Receiving Mails with some practice		
		15. IT Security and its importance. & the Security		
		Policy of IA & AD.		
8.	IDEA	& 1. Basics of Data structures, IDEA: An	For those who	5 days
	Tableau	Overview,	have	
	(Level-III)	What's on the IDEA Screen, Application windows and	undergone	
		toolbars	training in	
		Getting started: Essential of data Downloading,	MS Office or	
		including exercise 1,	have basic	
		2. Use of IDEA features followed by Exercise to	knowledge of	
		practice analysis function for checking duplicates,	Computer	
		indexing, summarizing and checking field statistics.	•	
		(Exercise 2),		
		3. Exercise related with downloading of MS		
		ACCESS database file, creation of virtual fields,		
		duplicate records' detection and record extraction.		
		(Exercise 3) 4. Use of IDEA features followed by		
		Exercise to practice IDEA features useful in conduct		
		of Financial Audit.		
		5. Using @ Functions in IDEA		
		6. Exercise 6: Use of IDEA in Value for Money		
		Audit.		
		7. Exercise 7: Use of IDEA in Accounts		
		Receivable Audit		
		8. Exercise 8: Use of IDEA in Accounts Payable		

Audit and Fraud Investigation
9. ODBC Connectivity using IDEA Software
y obb c compountly using 12 2.11 solutions
10. Exercise : 9 – Use of IDEA in detailed Inventory
System Audit and detect outdated stocks and missing
inventory items
Tableau: Data downloading; Database Connectivity;
Manipulation; Visualisation, Calculated fields; Filters;
Hierarchy, Dashboards
Other features in Tableau: Story, Distribution of
workbooks
Tableau Exercise/ Case Study: Analysing data,
Deriving Insights; Identifying risk areas, building
dashboards.
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			l	
9.	MS Word an	1. Introduction to Computers, Overview of	Any Group	5 days
	Power Point	Windows O.S. and its application.	'C' and	
	(Level-II	2. MS Word (creating new documents, opening	Group 'B'	
	Course)	an existing documents, entering text, Saving a	officials/	
		document), Check spelling, editing text and	Officers	
		formatting characters. MS Word (Formatting		
		paragraphs, Formatting pages, formatting sections		
		including Page Break, creating columns,).		
		3. Navigation in Word (Using Find & Replace,		
		Using Go TO), Word Automatic functions (Auto		
		Correct, Auto Format as you Type, Auto text, Auto		
		Format,		
		Auto Summarize),		
		4. Bullets & Numbering including multiple		
		layer of bullets, Border & Shading, Paragraph and		
		•		
		character styles, saving style information, Applying		
		style with tool bar, Applying style with key board		
		shortcut, removing style, creating style using dialog		
		boxes, modifying style, using style gallery, Headers		
		and footers, creating footnotes.		
		5. Creating Simple Table, Insert Row, Delete		
		Row/Column, Split Cell, Formula, Create Graphs,		
		mail merge,		
		6. Overview of Power Point. Create a new		
		presentation, Use different slide formats, Enter both		
		Text and Graphics, Save a slide show, Working with		
		colours and Transitions, Animation and sound- Preset		
		Animation, Custom Animation, Timing, Effects,		
		Action Buttons / Settings / Preview.		
10.	Principles of	Fundamentals of Networking, Difference	(For those	04 days
10.	_	between Single User and Multiuser systems, OS	,	04 days
	Networking,			
	Internet and	requirements, Different Network Models, Types of	undergone	
	Network	Networking, Networking topologies, Transmission	training in	
	Security (Level-		MS Office or	
	II training)	2. Configuring Networks, Different protocols	have basic	
		used in Networking, Overview about IP Addresses,	knowledge of	
		Creation of Workgroups, Granting access, Sharing	Computer)	
		and various permissions		
		3. Security concerns in networking (Virus		
		threats, hacking etc.), Information Security,		
		Information Security Services, Information Security		
		Process.		
		4. Security Technologies (Firewall, Virtual		
1		Private Networks), Encryption Concepts, Intrusion		
1		Detection. 5. Introduction to the Internet,		
1		Requirements for Internet Connections, Various types		
		of Internet		
L		or internet		

	1		T	1
		Access, Internet facilities (email, world wide web		
		'www'), and Web Browsers connecting Internet.		
		6. Introduction to Email, Creating Web based		
		Email Accounts, Sending and receiving mails.		
		7. Brief Overview about e-commerce, e-		
		governance etc., hands on practice on internet surfing.		
		8. Basic concepts of web designing and		
		designing a website.		
		9. IA&AD Security Policy		
11.	IDEA	1. Basics of Data structures, IDEA: An	Those who	05 days
	(Level-II)	Overview,	have BASIC	,
		What's on the IDEA Screen, Application windows and	knowledge of	
		toolbars	Computer	
		Getting started: Essential of data Downloading,	•	
		including exercise 1,		
		2. Use of IDEA features followed by Exercise		
		to practice analysis function for checking duplicates,		
		indexing, summarizing and checking field statistics.		
		(Exercise 2),		
		3. Exercise related with downloading of MS		
		ACCESS database file, creation of virtual fields,		
		duplicate records' detection and record extraction.		
		(Exercise 3) 4. Use of IDEA features followed by		
		Exercise to practice IDEA features useful in conduct		
		of Financial Audit.		
		5. Using @ Functions in IDEA		
		6. Exercise 6: Use of IDEA in Value for Money		
		Audit.		
		7. Exercise 7: Use of IDEA in Accounts		
		Receivable Audit		
		8. Exercise 8: Use of IDEA in Accounts		
		Payable		
		Audit and Fraud Investigation		
		9. ODBC Connectivity using IDEA Software		
		10. Exercise: 9 – Use of IDEA in detailed		
		Inventory System Audit and detect outdated stocks		
		and missing inventory items		

12	Red Hat	Get Started with the GNOME Graphical	(For those	10 days
	Linux, Oracle	Desktop	who have	-
	11g with	Objective: Get started with GNOME and edit text	good	
	Developer11g	files with gedit	knowledge of	
	(Phase-I)	Manage Files Graphically with Nautilus	computer)	
	Introductory	Objective: Manage files graphically and access		
	Level	remote systems with Nautilus		
		Get Help in a Graphical Environment		
		Objective: Access documentation, both locally		
		and on-line		
		Configure Local Services		
		Objective: Configure the date and time and		
		configure a printer		
		Install Linux Graphically		
		Objective: Install Red Hat Enterprise Linux and		
		configure the system with first boot		
		Manage Virtual Machines		
		Objective: Understand basic virtualization concepts;		
		install and manage virtual machines		
		Control the Boot Process		
		Objective: Understand run levels and manage GRUB		

• Deploy File Sharing Services

Objective: Deploy an FTP server and a web server

• Secure Network Services

Objective: Manage a firewall; understand SELinux concepts and manage SELinux

• Comprehensive Review

Objective: Get a hands-on review of the concepts covered in this course

Get Started with Bash

Objective: Understand basic shell concepts, execute simple commands, and use basic job control technique

• Get Help in a Textual Environment

Objective: Use man and info pages and find documentation in /usr/share/doc

- Establish Network Connectivity
 Objective: Understand basic network concepts;
 configure, manage, and test network settings
- Administer Users and Groups
- Objective: Manage users and groups
- Manage Files from the Command Line Objective: Understand Linux file system hierarchy and pathnames; manage files from the command line
- Secure Linux File Access

Objective: Understand Linux file access mechanisms; manage file access from the GUI and the command line

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Administer Remote Systems

Objective: Share and connect to a desktop; use SSH and rsync

Configure General Services

Objective: Manage services; configure SSH and remote desktops

• Manage Physical Storage II
Objective: Manage file system attributes and swap

space

Manage Physical Storage I

Objective: Understand basic disk concepts and manage system disks

Manage Logical Volumes

Objective: Understand logical volume concepts and manage logical volumes

Monitor System Resources

Objective: Manage CPU, memory, and disk utilization

Manage System Software

Objective: Manage system software locally and using Red Hat Network (RHN)

Getting Started with the Classroom

Environment

	_	
Objective: Given a virtualized environment, begin to administrate multiple systems using prerequisite skills • Enhance User Security		
Enhance Hear Security		
Elinance Oser Security		

- Objective: Configure system to use Kerberos to verify credentials and grant privileges via sudo
- Bash Scripting and Tools

Objective: Automate system administration tasks utilizing Bash scripts and text-based tools

• File Security with GnuPG

Objective: Secure files with GnuPG

• Software Management

Objective: Use yum plugins to manage packages; understand the design of packages; build a simple package

• Network Monitoring

Objective: Profile running services, then capture and analyze network traffic

• Route Network Traffic

Objective: Configure system to route traffic and customize network parameters with sysctl

Secure Network Traffic

Objective: Secure network traffic through SSH port forwarding and ip tables filtering/network address translation (NAT)

• NTP Server Configuration

Objective: Configure an NTP server

• System Monitoring and Logs

Objective: Manage local file system integrity; monitor systems over time and system logging

Centralized Secure Storage

Objective: Access centralized storage (iSCSI) and encrypt file systems

• SSL-encapsulated Web Services

Objective: Understand SSL certificates and deploy an SSL-encapsulated web service

• Web Server Additional Configuration Objective: Configure a web server with virtual hosts, dynamic content, and authenticated directories

- Basic SMTP Configuration
- Objective: Configure an SMTP server for basic operation (null client, receiving mail, smart host relay)
- Caching-Only DNS Server

Objective: Understand DNS resource records and configure a caching-only name server

File Sharing with NFS

Objective: Configure file sharing between hosts with NFS

File Sharing with CIFS

Objective: Configure file and print sharing between hosts with CIFS

• File Sharing with FTP

Objective: Configure file sharing with anonymous FTP

• Troubleshooting Boot Process

Objective: Understand the boot process and recover unbootable systems with rescue mode

- A brief about 3 tier Architecture, Weblogic including difference between Oracle 8i and Oracle 11g and a brief about DBMS and RDBMS Introduction to Oracle Database:
- •List the features of Oracle Database 11g
- •Discuss the basic design, theoretical, and physical aspects of a relational database
- •Categorize the different types of SQL statements
- •Describe the data set used by the course
- •Log on to the database using SQL Developer environment
- •Save queries to files and use script files in SQL Developer

Retrieve Data using the SQL SELECT Statement:

- •List the capabilities of SQL SELECT statements
- •Generate a report of data from the output of a basic SELECT statement
- •Select All Columns
- •Select Specific Columns
- •Use Column Heading Defaults
- •Use Arithmetic Operators
- •Understand Operator Precedence
- •Learn the DESCRIBE command to display the table structure
- •Learn to Restrict and Sort DataWrite queries that contain a WHERE clause to limit the output retrieved
- •List the comparison operators and logical operators that are used in a WHERE clause
- •Describe the rules of precedence for comparison and logical operators
- Use character string literals in the WHERE clause
- •Write queries that contain an ORDER BY clause to sort the

output of a SELECT statement

- •Sort output in descending and ascending order
- Usage of Single-Row Functions to Customize Output:
- •Describe the differences between single row and multiple row functions
- •Manipulate strings with character function in the SELECT

and

WHERE clauses

•Manipulate numbers with the ROUND, TRUNC, and MOD

functions

- •Perform arithmetic with date data
- •Manipulate dates with the DATE functions Invoke Conversion Functions and Conditional Expressions
- •Describe implicit and explicit data type conversion
- •Use the TO_CHAR, TO_NUMBER, and TO_DATE conversion functions

- •Nest multiple functions
 •Apply the NVL, NULLIF, and COALESCE
- functions to data
- •Use conditional IF THEN ELSE logic in a SELECT Data Manipulation Statements:
- •Describe each DML statement
- •Insert rows into a table
- •Change rows in a table by the UPDATE statement
- •Delete rows from a table with the DELETE statement
- •Save and discard changes with the COMMIT and ROLLBACK statements
- •Explain read consistency

The SET Operators:

- •Describe the SET operators
- •Use a SET operator to combine multiple queries into a single query
- •Control the order of rows returned

Aggregate Data Using the Group Functions:

- •Use the aggregation functions to produce meaningful reports
- •Divide the retrieved data in groups by using the GROUP BY

Clause

- •Exclude groups of data by using the HAVING clause Display Data From Multiple Tables Using Joins:
- •Write SELECT statements to access data from more than one table
- •View data that generally does not meet a join condition by using outer joins
- •Join a table to itself by using a self join

Use Sub-queries to Solve Queries:

- Describe the types of problem that sub-queries can solve •Define sub-queries
- •List the types of sub-queries•Write single-row and multiple-row sub-queries

Use of DDL Statements to Create and Manage Tables:

- •Categorize the main database objects
- •Review the table structure
- •List the data types available for columns
- •Create a simple table
- •Decipher how constraints can be created at table creation
- •Describe how schema objects work

Other Schema Objects:

- •Create a simple and complex view
- •Retrieve data from views
- •Create, maintain, and use sequences
- •Create and maintain indexes

					ı	ı
•Create private	and publi	c synonyms	Control			
User Access:		,	C			
•Differentiate	system	privileges	from	object		
privileges •Create Users						
*Cleate Users						

•Grant System Privileges •Create and Grant Privileges to a Role	
Change Your Password	
•Grant Object Privileges	
•How to pass on privileges?	
•Revoke Object Privileges	
Management of Schema Objects	
•Add, Modify, and Drop a Column	
•Add, Drop, and Defer a Constraint	
•How to enable and Disable a Constraint?	
Create and Remove Indexes	
Create a Function-Based Index	
Perform Flashback Operations	
•Create an External Table by Using ORACLE_LOADER and by Using	
ORACLE_DATAPUMP•Query External Tables	
Manage Objects with Data Dictionary Views	
•Explain the data dictionary	
•Use the Dictionary Views	
•USER_OBJECTS and ALL_OBJECTS Views	
•Table and Column Information	
•Query the dictionary views for constraint	
information	
•Query the dictionary views for view, sequence, index	
and synonym information •Add a comment to a table	
•Query the dictionary views for	
comment informationRegular Expression Support	
•Use the Regular Expressions Functions and	
Conditions in SQL	
•Use Meta Characters with Regular Expressions	
•Perform a Basic Search using the REGEXP LIKE	
function	
•Find patterns using the REGEXP INSTR function	
•Extract Substrings using the REGEXP_SUBSTR	
function	
•Replace Patterns Using the REGEXP_REPLACE	
function •Usage of Sub-Expressions with Regular	
Expression Support	
•Implement the REGEXP_COUNT function	
Introduction to PL/SQL:	
•What is PL/SQL	
•PL/SQL Environment	
•Benefits of PL/SQL	
Overview of the Types of PL/SQL blocks Create and Execute a Simple Anonymous Block	
•Generate Output from a PL/SQL Block	
•Generate Output from a PL/SQL Block •SQL*Plus as PL/SQL Programming Environment	
osQL*Prus as PL/SQL Programming Environment Declaring PL/SQL Identifiers:	
Beetaming I LibQD Identificts.	

	•Identify the Different Types of Identifiers in a
	PL/SQL subprogram
	•Use the Declarative Section to Define Identifiers
	•List the Uses for Variables
	•Store Data in Variables
	•Declare PL/SQL Variables
•	

Writing Executable Statements:

- Describe Basic Block Syntax Guidelines
- •Use Literals in PL/SQL
- •Customize Identifier Assignments with SQL Functions
- •Use Nested Blocks as Statements
- •Reference an Identifier Value in a Nested Block
- •Qualify an Identifier with a Label
- •Use Operators in PL/SQL
- •Use Proper PL/SQL Block Syntax and Guidelines Interacting with the Oracle Server:
- •Identify the SQL Statements You Can Use in PL/SQL
- •Include SELECT Statements in PL/SQL
- •Retrieve Data in PL/SQL with the SELECT Statement
- •Avoid Errors by Using Naming Conventions When Using Retrieval and DML Statements
- •Manipulate Data in the Server Using PL/SQL
- •The SQL Cursor concept
- •Use SQL Cursor Attributes to Obtain Feedback on DML Save and Discard Transactions Writing Control Structures:
- •Control PL/SQL Flow of Execution
- •Conditional processing Using IF Statements
- •Conditional Processing CASE Statements
- •Handle Nulls to Avoid Common Mistakes
- •Build Boolean Conditions with Logical Operators
- •Use Iterative Control with Looping Statements Working with Composite Data Types:
- •Learn the Composite Data Types of PL/SQL Records and Tables
- •Use PL/SQL Records to Hold Multiple Values of Different Types
- •Inserting and Updating with PL/SQL Records •Use INDEX BY Tables to Hold Multiple Values of the Same Data Type Using Explicit Cursors:
- •Cursor FOR Loops Using Sub-queries
- •Increase the Flexibility of Cursors By Using Parameters
- •Use the FOR UPDATE Clause to Lock Rows
- •Use the WHERE CURRENT Clause to Reference the Current Row
- Use Explicit Cursors to Process Rows
- Explicit Cursor Attributes

Cursors and Records Handling Exceptions

- •Handling Exceptions with PL/SQL
- Predefined Exceptions
- •Trapping Non-predefined Oracle Server Errors

Functions that Return Information on Encountered Exceptions Trapping User-Defined Exceptions Propagate Exceptions				
•Trapping User-Defined Exceptions		•Functions that Return Information on Encountered		
•Trapping User-Defined Exceptions		Exceptions		
*Propagate Exceptions		•Trapping User-Defined Exceptions		
		•Propagate Exceptions		
		1 8 1		
			<u> </u>	

•Use The RAISE_APPLICATION_ERROR
Procedure To Report Errors To Applications Single
Row Function,-Character, Numeric,
Date and Conversion Functions.
Substitution Variable-Single, double and ampersand
Creating Stored Procedures:
Describe the block structure for PL/SQL stored
procedures

- •Invoke a stored procedure from an anonymous block or another stored procedure
- •List the CREATE OR REPLACE PROCEDURE syntax
- •Identify the development steps for creating a stored procedure
- •Use the SHOW ERRORS command
- •View source code in the USER_SOURCE dictionary view

Creating Stored Functions:

- •Describe stored functions
- •List the CREATE OR REPLACE FUNCTION syntax
- •Identify the steps to create a stored function
- •Execute a stored function
- •Identify the advantages of using stored functions in SQL statements
- •Identify the restrictions of calling functions from SQL statements
- •Remove a function

Creating Packages:

- •List the advantages of packages
- •Describe packages
- •Show the components of a package Diagram the visibility of constructs within a package
- •Develop a package
- •Create the package specification
- •Declare public constructs
- •Create the package body
- Mailing Label, Form letter,
- Group left, Group Above,
- Matrix Type, Matrix with Group type,
- Parameter creation etc.

Assesment Test

Using More Package Concepts:

- •List the benefits of overloading
- •Show overloading example
- •Use forward declarations in packages
- •Create a one-time only procedure (package code initialization)
- •List the restrictions on package functions used in SQL
- •Encapsulate code in a package demonstration
- •Invoke a user-defined package function from a SQL statement

	Utilize the persistent state of package	
	variables.	

 Introduction to Report Builder Component, customizing report builder, • report
editor,
Report wizard component,
Using Report Wizard,
Tabular Type, Form like ,

13.	Red Hat	A brief about 3 tier Architecture, WebLogic	(For those	10 days
13.	Linux, Oracle	including difference between Oracle 8i and Oracle	who have	10 days
	· ·	1	undergone	
	11g with Developer11g	11g and a brief about DBMS and RDBMS Introduction to Oracle Database:	training in	
	(Phase-II)	•List the features of Oracle Database 11g	Introductory	
	Advance Level		Course on	
		•Discuss the basic design, theoretical, and physical	Red Hat	
		aspects of a relational database	Linux Oracle	
		•Categorize the different types of SQL statements	11 g with	
		•Describe the data set used by the course	Developer	
		•Log on to the database using SQL Developer	11g- Phase-I)	
		environment		
		•Save queries to files and use script files in SQL		
		Developer		
		Review of PL/SQL commands Trigger component & code Massage		
		Trigger component & code, Message,alert,		
		• SQLERRM,		
		Library creation,		
		Item interaction Trigger,		
		Query Trigger, Validation Trigger,		
		Navigational Trigger,		
		Transactional Trigger		
		Menu, Function Key ,		
		• Mouse Event,		
		Multiple Form application,		
		• form building, in Oracle 11		
		Introduction to Report Builder Component,		
		• customizing report builder, • report		
		editor,		
		Report wizard component,		
		Using Report Wizard,		
		Tabular Type, Form like,		
		Mailing Label, Form letter,		
		Group left, Group Above,		
		Matrix Type, Matrix with Group type,		
		Parameter creation etc.		
		Practice Session		
		Manual Development of Report,		
		• Calling Report from a form,		
		Message development ,		
		Message Handling Triggers,		
		Creating Menu and attaching forms and		
		reports to the Menu,		
		Handling Triggers (Navigation, Transactional,		
		Validation Trigger),		
		Exploring the Oracle Database Architecture		
		Oracle Database Architecture Overview		
		Oracle ASM Architecture Overview		
		•Process Architecture		

 Memory structures •Logical and physical storage structures •Installing your Oracle Software Tasks of an Oracle Database Administrator •Tools Used to Administer an Oracle Database •Installation: System Requirements •Oracle Universal Installer (OUI) •Installing Oracle Grid Infrastructure •Installing Oracle Database Software Creating an Oracle Database •Planning the Database **Practice Session** Using the DBCA to Create a Database Password Management •Using the DBCA to Delete a Database Managing the Oracle Database Instance •Start and stop the Oracle database and components •Use Oracle Enterprise Manager •Access a database with SQL Plus •Modify database installation parameters •Describe the stages of database start up •Describe database shutdown options •View the alert log •Access dynamic performance views Manage the ASM Instance •Set up initialization parameter files for ASM instance •Start up and shut down ASM instances •Administer ASM disk groups Configuring the Oracle Network Environment •Use Enterprise Manager to create and configure the Listener •Enable Oracle Restart to monitor the listener •Use thsping to test Oracle Net connectivity **Practice Session** Managing Database Storage Structures •Storage Structures •How Table Data Is Stored Anatomy of a Database Block •Space Management in Table spaces •Table spaces in the Preconfigured Database •Actions with Table spaces Administering User Security Database User Accounts •Predefined Administrative Accounts Managing Data Concurrency •Data Concurrency •Enqueue Mechanism •Resolving Lock Conflicts Managing Undo Data •Transactions and Undo Data

Undo Data Versus Redo DataConfiguring Undo Retention

Practice session	
Implementing Oracle Database Auditing	
•Describe DBA responsibilities for security	
•Enable standard database auditing	
•Specify audit options	
•Review audit information	

•Maintain the audit trail Database Maintenance •Manage optimizer statistics •Manage the Automatic Workload Repository (AWR) •Use the Automatic Database Diagnostic Monitor Core Concepts and Tools of the Oracle Database •ASM Storage Concepts •Connecting to the Database and the ASM Instance •DBA Tools Overview Configuring Recoverability •Purpose of Backup and Recovery (B&R), Typical Tasks and Terminology •Using the Recovery Manager (RMAN) •Configuring your Database for B&R Operations Configuring and Managing Persistent Settings for **RMAN** •Configuring Auto backup of Control File Practice session •Backup optimization •Advanced Configuration Settings: Compressing •Configuring Backup and Restore for Very Large Files (Multi section)Creating Backups with RMAN •RMAN backup types •Creating and Using the following:- Backup Sets and Image Copies- Whole Database Backup- Fast Incremental Backup- Configure Backup Destinations-Archival Backup Restore and Recovery Task •Restoring and Recovering •Causes of File Loss •Automatic Temp file Recovery •Recovering from the Loss of a Redo Log Group •Re-creating a Password Authentication File •Complete and Incomplete Recovery **Practice Session** Using RMAN to Perform Recovery •Complete Recovery after Loss of a Critical or Noncritical Data File •Incomplete Recovery •Performing Recovery with a Backup Control File •Restoring from Auto back up: Server Parameter File and Control File •Restoring and Recovering the Database on a New Host Diagnosing the Database

•Data Recovery Advisor (DRA)

Using Flashback Technology I

•Health Monitor

•Automatic Diagnostic Repository (ADR)

•The ADR Command-Line Tool, ADRCI

•Flashback Technology: Overview and Setup

•Using Flashback Technology to Query Data	
•Flashback Table	
•Flashback Transaction Query	

•Performing Flashback Transaction Back out Using Flashback Technology II •Oracle Total Recall •Flashback Drop and the Recycle Bin Performing Flashback Database •Configuring Flashback Database •Performing Flashback Database Operations •Monitoring Flashback Database Managing Memory •Oracle Memory Structures •Oracle Database Memory Parameters •Using Automatic Memory Management •Automatic Shared Memory Management •Using Memory Advisors •Using Data Dictionary Views & Practice Managing Database Performance •Tuning Activities •Using Statistic Preferences •Optimizer Statistics Collection •Monitor the Performance of Sessions and Services •Describing the Benefits of Database Replay Managing Performance by SQL Tuning •SQL Tuning and SQL Advisors •Using SQL Tuning Advisor •SQL Access Advisor •SQL Performance Analyzer Overview & Practice Managing Resources Database Resource Manager: Overview and Concepts •Accessing and Creating Resource Plans •Creating Consumer Group •Specifying Resource Plan Directives, including:-Limiting CPU Utilization at the Database Level-**Instance Caging** Activating a Resource Plan •Monitoring the Resource Manager Automating Tasks with the Scheduler Simplifying Management Tasks& Practice •Creating a Job, Program, and Schedule Managing Space in Blocks •Free Space Management •Monitoring Space •Compressing Data Managing Space in Segments •Segment Creation on Demand •Additional Automatic Space-Saving Functional it •Shrinking Segments •Segment Advisor •Managing Re-sumable Space Allocation Duplicating a Database •Using RMAN to Create a Duplicate Database

<u>, </u>		
	•Cloning a Database from a Backup	
	•Duplicate a Database Based on a Running Instance	
	& Practice	

14	PFMS &iBEMS	Brief about EIS module of PFMS functionalities and creation of DDO's account on PFMS, e-payment and cheque payment Various types of Bill preparation and payment to made each individual Beneficiary/Vendor by DDO.	Dealing officails/ officers	02 days
		Passing of Bill and payment to make each individual Beneficiary/Vendor by PAO.		
		Practical and Interaction session on PFMS Brief about iBEMS & Hands on Experience on iBEMS Capturing of gross expenditure of bills booked by field Office on Object head, Sub Object head and SubSub Object head to monitor the incurred Expenditure in iBEMS Authentication of gross Expenditure and payment of bills Practical and Interaction session on iBEMS		

15	Operation &	Understand the Accounting System of State	(For AAOs/	06 days
	Working in IFMS	Government :- INTEGRATED FUND	SAOs. only)	- 3 -
	Environment &	MANAGEMENT SYSTEM (IFMS) Web based	• ,	
	Overview of	application		
	Treasury System	Information Gathering, Risk Assessment to Define		
	& Inspection of	Audit Objectives & Scope.		
	Treasuries	Audit of General Controls:		
		Organisation and management controls (IT policies		
		and standards);		
		IT operational controls;		
		Physical controls (access and environment);		
		Logical access controls;		
		Acquisition and program change controls; Business		
		continuity and disaster recovery controls.		
		Audit of Application Controls: Input Control; Process		
		Control Output Control		
		Audit of IT Security & End User Computing		
		Controls		
		Using Computer Assisted Audit Techniques		
		Data downloading using IDEA:		
		Data downloading using CAAT-SQL:		
		An overview of Treasury Inspection Mandate		
		An overview of Accounting Framework and		
		arrangements with RBI/Agency Banks An		
		overview of functioning of a Treasury &		
		Role of Treasury in budgetary control of the State		
		Internal controls and Registers maintained in		
		Treasury Planning a treasury inspection and areas of feats		
		Planning a treasury inspection and areas of focus		
		Points to be seen during Treasury Inspection Introduction		
		Steps in IT Audit Preliminary Assessment and		
		Data downloading, Join database ;Append ;Random		
		Sampling;		
		Systematic Sampling; Stratified Random Sampling;		
		MUS Direct Extraction;		
		Key Value Extraction ;,Duplicate Key;		
		Summarisation ;Stratification ;Aging		
		Evidence Collection and Evaluation		
		Documentation and Reporting		
		Case Studies		
16	Enterprise	Course content to be decided with the help of user	(For AAOs/	03 days
	Resource	offices.	SAOs. only)	-
	Planning(ERP)		-	
	/System			
	Applications and			
	Products in Data			
	Processing			
17	Audit of	Course content to be decided with the help of user	(For AAOs/	03 days
	procurement	offices	SAOs. only)	
	through GeM			

Course Contents Knowledge Centre Courses 2022-23

Sl. No.	Course Name	Modules/Topic Covered	Preferred Participant	Duration
			Profile	
1.	All India Seminar	Government Accounts	SAOs/AAOs	04 days
	on Government	What are accounts		
	Accounting	Introduction to initial accounts.		
	including GASAB	Purpose and importance of		
	and Accrual	accounting in Government.		
	Accounting	Role of C&AG of India		
		Responsibility of Accountant General Function, duties and powers of C&AG's in relation to		
		Government Accounts		
		Historical evolution of the Institution of the CAG.		
		CAG's powers as enshrined in Constitution and in		
		CAG's (DPC)Act, 1971		
		Duties of the Accountant General(A&E) in respect of		
		accounts of a state government		
		Basic structure and form of Government Accounts		
		Main division of government accounts		
		Main features of accounts- how the government		
		transactions are exhibited in final accounts.		
		Sources from which accounts are received in AG		
		Office. Procedure for Receipt, maintenance, and		
		compilation of accounts in IA&AD from treasuries		
		Receipt of initial accounts.		
		Check of initial accounts.		
		☐ Compilation of accounts.		
		☐ Maintenance of Classified and Consolidated		
		Abstract		
		Procedure for receipt of accounts from Public Works		
		Divisions and Forest Division procedure for		
		receipt and check of compiled		
		accounts from Public Works Divisions and Forest		
		Division; incorporation of these compiled		
		accounts into the Government Accounts;		
		Classified and Consolidated Abstracts of		
		Public Works and Forest transactions		
		Debt, Deposit and Remittance transactions accounting of transactions under the Debt,		
		Deposit and Remittance Heads; ☐ checks exercised in Accounts Offices to		
		ensure accuracy of balances under Debt, Deposit and		
		Remittance Heads		
		Transfer Entry, its use and accounting procedure.		
		☐ What is a Transfer Entry?		
		☐ Preparation of Transfer Entry.		
		☐ Object of Transfer Entry		

	Maintenance of Transfer Entry	

Role of Reserve Bank of India in Government	
Accounts	
Role of Reserve Bank of India in	
Government Accounting;	
Inter Government and inter departmental	
adjustments;	
☐ Adjustment of the outstanding suspense	
balances under final heads.	
Objective and concept of financial statements	
Objective and concepts underlying financial	
statements;	
Financial Statements of Government or Finance Accounts of Government	
Objective and concept of Appropriation Accounts of	
the Government	
☐ Objective and concepts	
underlying Appropriation Accounts;	
☐ Form and Content of Appropriation Accounts;	
Reconciliation of figures appearing in the	
Finance Accounts with those appearing in the	
Appropriation Accounts.	
Understanding GASAB, Accrual Accounting, IGASs, IGFRSs, IFMS and KRA	
☐ Existing system followed in Government	
Accounting	
☐ Concept of Accrual Accounting	
Control of the following	
Need for GASAB	
Formation of GASAB & its composition.	
☐ Essentiality of formulating Accounting and	
Financial Reporting Standards	
☐ Scope and Objective of GASAB	
☐ Financial Statements of the Government	
☐ Authority, Scope and Applicability of	
IGASs & IFRSs	
☐ Introduction to IFMS and KRA	

2.	Treasury	An overview of Treasury Inspection Mandate	SAOs/AAO	05 da
	Inspection	An overview of Accounting Framework and	S	ys
		arrangements with RBI/Agency Banks An		
		overview of functioning of a Treasury &		
		Role of Treasury in budgetary control of the State		
		Internal controls and Registers maintained in		
		Treasury		
		Planning a treasury inspection and areas of focus		
		Points to be seen during Treasury Inspection		
		Introduction		
		Steps in IT Audit Preliminary Assessment and		
		Information Gathering, Risk Assessment to Define		
		Audit Objectives & Scope.		
		Audit of General Controls:		
		Organisation and management controls (IT policies		
		and standards);		
		IT operational controls;		
		Physical controls (access and environment);		
		Logical access controls;		
		Acquisition and program change controls; Business		
		continuity and disaster recovery controls. Audit of		
		Application Controls:		
		(a) Input Control		
		(b) Process Control		
		Output Control		
		Audit of IT Security & End User Computing		
		Controls		
		Using Computer Assisted Audit Techniques		
		Understand the Accounting System of State		
		Government :- INTEGRATED FUND		
		MANAGEMENT SYSTEM (IFMS) – KUBER –		
		Web based application		
		Data downloading using IDEA: Data downloading using CAAT-SQL:		
		Data downloading using CAA1-SQL. Data downloading using MS- Access		
		Join database ;Append ;Random Sampling;		
		Systematic Sampling ;Stratified Random Sampling		
		;MUS Direct Extraction;		
		Key Value Extraction ;,Duplicate Key;		
		Summarisation; Stratification; Aging		
		Evidence Collection and Evaluation		
		Documentation and Reporting		
		Case Study		