

## COURSE SCHEDULE

**Course Title/Name** : PL SQL and Tableau  
**Period** : 06 days (30-Oct. to 04-Nov. 2023)  
**Mode** : Classroom (Onsite)  
**Target Group** : Sr. A.O's, Group "B" & "C"

<b>Course Structure:</b>				
The Course will be based on Data of VLC database. Participants from each Office shall be required to bring the VLC Data from their own Office States. The Course will cover SQL and extraction of VLC Data using SQL; analysis of VLC data, including building VLC Dashboard, using Tableau.				
Day	Session I Session Time (10:00 to 11:15)	Session II Session Time (11:30 to 12:45)	Session III Session Time (13:45 to 15:00)	Session IV Session Time (15:15 to 16:30)
<b>Day 1</b> 30/10/2023 (Monday)	<b>Inauguration, Registration, Entry Knowledge Test</b>	Introduction to SQL and data types. SQL Statements: Select, Where, Group by, Order by. Handling NULL Values, SQL Joins and Sub queries		
	<i>DG &amp; Core Faculty</i>	<b>Guest Faculty:</b> <i>Jhuntu Dasgupta, AAO, O/o the PAG (A&amp;E) Tripura</i>		
<b>Day 2</b> 31/10/2023 (Tuesday)	An overview of VLC Dashboard. How to build VLC Dashboard using Tableau. Introduction to the various functions of VLC Dashboard.		Analytical SQL queries : Over, Order by, Partition by, Sum, Rank, Analytical function in where clause. etc. Exporting the Result of SQL Queries.	
	<b>Guest Faculty:</b> <i>KS Gopinath, PAG (A&amp;E) Assam</i>		<b>Guest Faculty:</b> <i>Amit Kumar Gosh, AAO, O/o the PAG (A&amp;E) Meghalaya</i>	
<b>Day 3</b> 01/11/2023 (Wednesday)	Creating and Using a simple Stored Procedure With Single/Multiple Parameters. Creating and Using SQL Functions			
	<b>Guest Faculty:</b> <i>Swarup Chakraborty, O/o the PAG (A&amp;E) Meghalaya</i>			
<b>Day 4</b> 02/11/2023 (Thursday)	Extraction of data from VLC Database using SQL Queries		An overview of Tableau Desktop. Data Downloading, Data connectivity.	
	<b>Guest Faculty:</b> <i>Amit Kumar Gosh, AAO, O/o the PAG (A&amp;E) Meghalaya</i>		<b>Guest Faculty:</b> <i>DD Purkayastha, SAO (Rtd.)</i>	
<b>Day 5</b> 03/11/2023 (Friday)	Manipulation, Visualization, Calculated fields, filters, Hierarchy. Hands on session.			
	<b>Guest Faculty:</b> <i>DD Purkayastha, SAO (Rtd.)</i>			
<b>Day 6</b> 04/11/2023 (Saturday)	Tableau Exercise/Case Study: Analysing data, deriving insights; identifying risk areas, building dashboards. Principles of Visualization, Consolidation of Concepts; Data Analytic Principles and Approaches			<b>Course End Test and Valediction</b>
	<b>Guest Faculty:</b> <i>DD Purkayastha, SAO (Rtd.)</i>			<i>DG &amp; Core Faculty</i>

**Refreshment breaks** : 11:15 to 11:30 and 15:00 to 15:15

**Lunch break** : 12:45 to 13:45

<b>Important Links</b>	Course Materials: <a href="https://bit.ly/rcbkis-sql23">bit.ly/rcbkis-sql23</a>	SAI Trg.: <a href="https://training.cag.gov.in">training.cag.gov.in</a>
------------------------	---	---