MVS- DAY1	Class Room Sessions	Overview of MF and S/W supported on MF, BATCH and ONLINE Applications, Characteristics of MF, Advantages of MF, Types of H/W, Different O/S, Subsystems, JES life Cycle, Master Catalog and User Catalogs, MVS Memory Management, MVS DATA Management(Non-VSAM and VSAM), Dataset, Concatenation of dataset, DATABASE types (Hierarchical, Network, Relational), DB2I, SQL, SPUFI, QMF, Tele-Communication, JCL (JOB, EXEC, DD), CICS, IMS, RACF, ISPF/PDF, Virtual Storage, Multiprocessing, Storage, Expanded Storage, Hyperspace, Data Space, Paging, Swapping, SYSPLEX
ISPF-DAY1	Class Room Sessions	<ul> <li>Logon, Logoff,</li> <li>Creation of PS and PDS,</li> <li>Allocation Sheet</li> <li>TSO Line editing Commands</li> <li>TSO Primary Editing Commands, DSLIST</li> <li>TSO Command</li> <li>Utilities (3.1, 3.2, 3.3, 3.4)</li> <li>SDSF</li> <li>SUPERC, SUPERCE, SEARCH-FOR</li> </ul>
		Practice All commands
JCL-DAY1	Class Room Sessions	<ul> <li>JOB Statement</li> <li>JES Life Cycle</li> <li>Different JCL Statements</li> <li>Coding Sheet</li> <li>JOB Statement         <ol> <li>(A/C info, Pgmr Name, CLASS, MSGCLASS, MSGLEVEL, TYPRUN, NOTIFY, RESTART)</li> <li>EXEC Statement (PGM, PARM)</li> <li>DD Statement (DSN, DISP, DCB)</li> <li>IEBGENER, IEBCOPY, LISTVOC</li> </ol> </li> <li>Writing JCL for IEBGENER, IEBCOPY, LISTVOC</li> </ul>
JCL -DAY2	Class Room Sessions	<ul> <li>COND</li> <li>REGION</li> <li>TIME</li> <li>STEPLIB, JOBLIB</li> <li>SYSPRINT</li> <li>SYSIN, SYSOUT, SYSABEND, SYSUDUMP, DUMMY</li> <li>SORT, MERGE</li> </ul>

	Lab Sessions	<ul> <li>IEHLIST, IDCAMS, REPRO, PRINT, CONCATENATION, IEBPTPCH,</li> <li>Writing JCL for SORT, MERGE, REPRO, PRINT, CONCATENATION</li> </ul>
JCL-DAY3	Class Room Sessions	<ul> <li>Referback</li> <li>IEHPROGM, LISTPDS, INCLUDE, SET,</li> <li>PROCEDURE (Instream &amp; Catalog)</li> <li>Overriding, Symbolic Parameter</li> <li>GDG</li> <li>Modal Commands IF ELSE, MAXCC, LASTCC</li> </ul>
	Lab Sessions	Writing JCL on Instream and catalog procedure, Symbolic parameter, Creation of GDG and Modal Commands
COBOL- DAY1	Class Room Sessions	<ul> <li>Intro, Coding Sheet</li> <li>DIVISION</li> <li>SECTION</li> <li>PARAGRAPH</li> <li>SENTENCE</li> <li>STATEMENT</li> <li>DISPLAY, ACCEPT</li> <li>ADD, MULTIPLY, SUBSTRACT, DIVIDE</li> <li>COMPUTE, MOVE, MOVE CORR</li> <li>Explanation on RUN JCL and COMPILE JCL</li> </ul>
	Lab Sessions	Writing simple programs using above statements
COBOL- DAY2	Class Room Sessions	<ul> <li>Edited Clause</li> <li>PARM passing</li> <li>VALUE, INITIALIZE</li> <li>REDEFINE</li> <li>RENAME</li> <li>USAGE</li> <li>EVALUATE</li> <li>PERFORM Statements</li> </ul>
	Lab Sessions	Writing Programs with above statements
COBOL- DAY3	Class Room Sessions	<ul> <li>Sequential File processing</li> <li>OPEN, CLOSE, READ, WRITE</li> <li>INPUT, OUTPUT, EXTEND, I-O,</li> <li>FILLER</li> <li>REPORT Generation with HEADER and FOOTER</li> </ul>
	Lab Sessions	Writing programs with Report TYPE, Opening FILE in different MODE

COBOL- DAY4	Class Room Sessions	<ul> <li>Index File Handling (KSDS / ESDS / RRDS)</li> <li>Access SEQUENTIAL, RANDOM, DYNAMIC</li> </ul>
	Lab Sessions	Writing programs on Index file of KSDS / ESDS / RRDS
COBOL- DAY5	Class Room Session	<ul> <li>AIX Handling with UNIQUE / NON- UNIQUE key</li> <li>CONTROL BREAK( SINGLE &amp; DOUBLE)</li> </ul>
	Lab Sessions	Writing program accessing index file with Alternate key and Control break
COBOL- DAY6	Class Room Sessions	<ul> <li>SORT, MERGE</li> <li>Selective SORT</li> <li>SUB-ROUTINE <ol> <li>(Call By Reference, Call By Content)</li> </ol> </li> <li>STATIC and DYNAMIC CALL</li> </ul>
	Lab Sessions	Writing program on SORT, MERGE and SUB- ROUTINE
COBOL- DAY7	Class Room Sessions	<ul> <li>TABLE HANDLING(Single &amp; Multiple),</li> <li>TABLE SEARCH (Linear and Binary)</li> </ul>
	Lab Sessions	Writing TABLE program and SEARCH and SEARCH ALL for table look-up
COBOL- DAY8	Class Room Sessions	<ul> <li>STRING HANDLING (STRING, UNSRTING, INSPECT,</li> <li>FILE BALANCING (Master File &amp; Transaction file Using GDG)</li> </ul>
	Lab Sessions	Writing Program on STRING Handling and Master and Transaction Program
VSAM- DAY1	Class Room Sessions	<ul> <li>VSAM Organization</li> <li>OS CVOLS, VSAM CATALOGS</li> <li>KSDS, ESDS, RRDS, LDS</li> <li>Control Interval</li> <li>Control Area</li> <li>CI SPLIT</li> <li>CA SPLIT</li> <li>Buffer</li> </ul>

	Lab Sessions	<ul> <li>IDCAMS Utility</li> <li>Define Cluster with         <ol> <li>DEFINE, NAME, CISZ</li> <li>FREESPACE</li> <li>SPANNED or NOSPANNED</li> <li>RECOVERY, IMBED and REPLICATE</li> <li>BUFFERSPACE</li> <li>RECORDSIZE</li> <li>KEYS</li> <li>Creating VSAM(KSDS, ESDS, RRDS), REPRO, PRINT</li> </ol> </li> </ul>
VSAM- DAY2	Class Room Sessions	<ul> <li>AIX creation with UNIQUE and NON- UNIQUE</li> <li>BLDINDEX</li> <li>PATH</li> <li>REPRO</li> <li>PRINT</li> <li>ALTER</li> <li>REUSE</li> <li>EXPORT, IMPORT</li> <li>MAXCC, LASTCC</li> <li>DELETE</li> <li>LISTCAT</li> </ul>
	Lab Sessions	Creating AIX, BLDINDEX, PATH, PRINT
DB2-DAY1	Class Room Sessions	<ul> <li>Database Concept (Hierarchycal / Network / Relational ) Database</li> <li>Database Objects (Storage Group, Database, TableSpace, Table, Index, View, Synonyms, Aliases)</li> <li>System Objects(DB2 Catalog, DB2 Directory, BSDS, Bufferpool, Logs)</li> <li>DB2 Components (System Service, Locking Service, Database Service, Distributed data facility)</li> <li>Relational Database Concepts         <ul> <li>Entities, Relations, Tuples</li> <li>Normalization - 1NF, 2NF, 3NF</li> </ul> </li> <li>Terms used in Relational Databases         <ul> <li>Tables</li> <li>Rows</li> </ul> </li> </ul>

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		<ul> <li>Columns</li> <li>Data Types</li> <li>SQL and its Components</li> <li>SQL Queries</li> <li>Selecting Data from Table</li> <li>SELECT and FROM clauses</li> <li>The WHERE clause</li> <li>Different Predicates</li> <li>DB2 Specific Operators</li> <li>Pattern Matching</li> <li>Performing Arithmetic between Columns</li> <li>NULL values</li> <li>Scalar Functions</li> </ul>
		<ul> <li>Date &amp; Time Formats</li> <li>Date &amp; Time Functions</li> </ul>
DB2-DAY2	Lab Room Sessions	<ul> <li>String Functions</li> <li>Concatenation</li> <li>Numeric Functions</li> <li>Column or Aggregate Functions</li> <li>Counting in DB2 Tables</li> <li>The GROUP BY clause</li> <li>The HAVING clause</li> <li>The ORDER BY clause</li> </ul>
	Class Room Sessions	SUB- QUERIES AND CORRELATED QUERIES
		Sub-Selects and their Application
		<ul><li>Nesting Sub-Selects</li><li>Correlated Sub-Select</li></ul>
		JOINING DB2 TABLES TOGETHER
		<ul> <li>Selecting Data from more than One Table</li> <li>Inner Join</li> <li>Outer Join</li> </ul>
		<ul><li>Left Outer Join</li><li>Right Outer Join</li></ul>
		The VALUE function
		<ul><li>DISTINCT Keyword</li><li>UNION Keyword</li></ul>
		VIEW Keyword
		<ul><li>Security using Views</li><li>Accessing Views</li></ul>
		<ul><li>Updating Views</li><li>Security Levels</li></ul>

		<ul> <li>GRANT Statement</li> <li>REVOKE Statement</li> </ul>
		DB2 Objects
		<ul> <li>Table Spaces , Storage Group</li> <li>Index , View , Plan</li> <li>Creating and Deleting Objects - CREATE &amp; DROP Statement</li> <li>Protecting tables from DROP</li> <li>The System Catalog</li> </ul>
		UPDATING DATA IN A TABLE
		<ul> <li>Modifying Data in a Table</li> <li>UPDATE Statement</li> <li>DELETE Statement</li> <li>INSERT Statement</li> <li>Restricting the Rows being updated</li> <li>Updating Multiple Columns</li> <li>Setting Columns to NULL</li> <li>Setting Columns to a Value</li> </ul>
		INSERTING DATA INTO A TABLE
		<ul> <li>INSERT Statement</li> <li>Inserting NULL Values</li> <li>Inserting Default Values</li> <li>User Defined Defaults</li> <li>Inserting Values from another Table</li> <li>Inserting Multiple Rows</li> </ul>
		DELETING ROWS FROM A TABLE
DB2-DAY3	Lab Room Sessions	<ul> <li>DELETE Statement</li> <li>Restricting the Delete</li> <li>Programming Suggestions for Deleting</li> <li>Empty Tables</li> </ul>
	Class Room Sessions	
		EMBEDDING SQL IN AN APPLICATION PROGRAM
		<ul> <li>Planning</li> <li>Testing the SQL Interactively</li> <li>Precompile</li> <li>Compile</li> <li>Bind</li> <li>Link</li> <li>Execution of a DB2 Program</li> </ul>

		MANIPULATING DATA AND FROM A TABLE
DB2-DAY4	Lab Room Sessions	<ul> <li>The SQLCA</li> <li>The DCLGENs</li> <li>Handling Exceptional Conditions <ul> <li>SQLCODE</li> <li>WHENEVER Statement</li> </ul> </li> <li>EXEC SQL Statement</li> <li>Host Variables</li> <li>INTO Statement</li> <li>NULL Indicator</li> <li>Selecting One Row</li> </ul>
DB2-DAY5	Class Room Sessions	<ul> <li>Selecting and Returning Multiple Rows <ul> <li>The CURSOR Statement</li> <li>DECLARE, OPEN, FETCH &amp; CLOSE the Cursor</li> <li>Check for NULL Values</li> <li>The UPDATE Statement</li> <li>Cursor controlled Updates</li> <li>Cursor controlled Deletes</li> </ul> </li> <li>REFERENTIAL INTEGRITY <ul> <li>Using DB2 RI Facilities</li> <li>Primary and Foreign Keys</li> <li>Cascade Deletes and Updates</li> <li>ON DELETE Statement</li> <li>Restrict, Cascade and Set Null options</li> <li>UPDATE Statement</li> </ul> </li> </ul>
	Class Room Sessions	DYNAMIC SQL ADVANCED DB2 (Introduction) DRDA Stored Procedures Roles of Client & Server Scrollable Cursors Insensitive cursors Sensitive cursors User define Function Trigger
CICS - DAY1	Class Room Sessions	INTRO TO CICS

		<ul> <li>Terminal Handling techniques</li> <li>1. PF KEYS/AID</li> </ul>
		<ul> <li>Link/XCTL/RETURN(Program control commands)</li> </ul>
		<ul> <li>EIB (<u>E</u>xecute <u>I</u>nterface <u>B</u>lock) / DFHCOMMAREA</li> </ul>
DAY3		File Handling/File control commands
CICS -	Class Room Sessions	FILE HANDLING
	Lab Sessions	Coding a CICS/COBOL program
		<ul><li>MDT</li><li>SEND MAP &amp; RECEIVE MAP</li></ul>
		Cursor Positioning (Static & Dynamic)
		<ul> <li>Symbolic and Physical maps</li> <li>AttributesCoding and their significance</li> </ul>
		Creation of Maps / Map Sets
CICS - DAY2	Class Room Sessions	BMS
	Lab Sessions	Writing Simple CICS program with SEND & RECEIVE command & PCT & PPT Entry
		Compilation Process
		<ul> <li>and Tasks</li> <li>CEDA, CECI, CEMT, CEBR, CESN, CESF</li> </ul>
		Multitasking, Multi threading, Transaction
		<ul><li>3. Pseudo Conversation</li><li>Pseudo Conversational Programming,</li></ul>
		2. Conversation
		1. Non Conversation
		<ul> <li>Types of Conversation</li> </ul>
		<ul> <li>Macro &amp; Command Level</li> <li>Introduction—Online &amp; Batch Applications.</li> </ul>

		<ul> <li>File Accessing thru AIX</li> <li>VSAM KSDS , ESDS, RRDS</li> </ul>
	Lab Sessions	Program Using AIX
CICS - DAY5	Class Room Sessions	<ul> <li>TSQ &amp; TDQ</li> <li>Accessing DB2 Tables thru CICS</li> <li>CICS Abends and their interpretation</li> </ul>
	Lab Sessions	TSQ & TDQs & Accessing From DB2 table