

# SAS COURSE CONTENT

- INTRODUCTION
  - Introduction to SAS Integrated Systems.
  - Components of SAS System.
  - SAS Runs on Different Platforms.
  - Use of Different Platforms.
  - Accessing the data from External Source.
  - Other Integrations.
  - Accessing the Data from different sessions.
  - Real-time monitoring in SAS with server integrations.
  - Working with structure of SAS
- Working in the SAS Environment
  - Defining and managing SAS Windows.
  - Creating and managing SAS Libraries.
  - Overview of SAS Data states.
  - Types of Libraries.
  - Storing files temporarily and permanently.
  - Referencing SAS files.
- CREATION DATABASE FROM RAWDATA
  - Steps to create a SAS dataset.
  - Referencing a SAS data library.
  - Referencing a SAS data library.
  - Using different statement to get data.
  - Referencing a Raw data file.
  - Writing a data step program.
- CREATING AND REDEFINING VARIABLES
  - Use with different conditional statements.
- DEBUGGING & INTERPRETING ERROR MESSAGES
  - DEBUGGING & INTERPRETING ERROR MESSAGES
- AUTOMATIC VARIABLES
  - Use of automatic variables.
  - Types of automatics variables.

- Use of \_N\_, \_ERROR\_, \_NULL\_.
- Testing your programs.
- Using put statement.
- Automatic Variable.
- ENHANCING YOUR OUT WITH ODS
  - Concepts of out put delivery system.
  - How ODS works and viewing output of ODS in different format.
  - HTML, RTF, PDF etc..
- COMBINATION THE SAS DATASETS
  - One-o-one reading, Concatenation, Interleaving, Match merge, Function
- SAS/SQL (MODULE-3)
  - Introduction to SQL.
  - Understanding SQL through SAS.
  - Using procedure SQL statements.
  - SQL Statements.
- PROCEDURES IN BASE SAS
  - Procedure Print.
  - Procedure Format.
  - Procedure Contents.
  - Procedure Options.
  - Procedure Append.
  - Procedure Compare.
  - Procedure Transpose.
  - Procedure Options.
  - Procedure Import.
  - Procedure Export.
  - Procedure Forms.
  - Procedure Datasets.
  - Procedure Format.
  - Procedure Tabulate.
  - Procedure Explode.
  - Procedure Chart, Gchart, Gplot.
  - Procedure Report.

- ADVANCED PROGRAMMING MACROS
  - Introduction to Macros.
  - Defining Macro facility.
  - Generating SAS code using Macros.
  - Placing text using Macro variable.
  - Passing Macro Elements.
  - Macro Execution Process.
  - Macro Statements.
  - Quoting Function.
  - Quoting Function.
  - SAS System options
- GRAPHS (MODULE-4)
  - Introduction to graphics.
  - Introduction to graphics.
  - Types of Graphics (with latest models)
  - Defining procedure Graphics.
- SAS / ACCESS (MODULE-5)
  - Introduction of SAS/ CONNECT.
  - Single user.
  - Multi user.
  - Remote SQL pass through services.
  - Data transfer services.
  - SAS/CONNECT system options.
  - Starting and stopping SAS/ CONNECT.
  - Post installation setup for SAS/ CONNECT software.
- SAS/ STATISTICS (MODULE-10)
  - Correlation analysis.
  - Regression Analysis
  - Mean.
  - Univeriant.
  - ANOVA for one-way analysis of variance.
  - GLM METHOD.
  - Post installation setup for SAS/ CONNECT software.