

#Learn_from_Home

DATA ANALYTICS ELITE (M2)

Course Code : LFH/DAML/02

Duration: 30 days

INTRODUCTION

This industry oriented course is developed by both the Software development division & Training division of **ipsr solutions limited**. IPSR is a **public limited IT company** with 20 years of expertise in [Software product development](#), [Training services](#), [Placement services](#) & [Digital Marketing services](#). During the past 2 decades, IPSR has trained candidates from **50+ countries** and helped **40000+ candidates** to build their IT career. Our IT services division is a pioneer in development of **Academic solution products**, incorporating cutting edge technologies like Artificial Intelligence, Data Analytics and Machine learning. Live industry experts from this IT division contribute a major role in delivering this course. Our placement division is having **1500+ placement tie-up companies** and we are conducting [recruitment on all days](#).

The Course curriculum is designed and developed by a team of expertise panel lead by following academicians

☐ Dr. Mendus Jacob, M.Sc., M.Phil., Ph.D., MIoD

- ☐ M.D & C.E.O - IPSR & Valin Technologies, U.K.
- ☐ Director - MCA, Marian College, Kuttikkanam (Autonomous)
- ☐ Former Director of School of Applicable Mathematics, M.G. University. ☐
Academician and Entrepreneur with 30+ years of experience

☐ Dr. Sunil Job K.A, M.Sc, M.Ed, M.Phil, Ph.D., RHCE

- ☐ Chief of Academic Solutions - IPSR
- ☐ Former college Principal and a Specialist in Data Analytics & Machine Learning ☐
Blogger and a Resource person for National conferences
- ☐ Academician with 25+ years of experience

What you'll learn

- ✓ How to execute SQL queries, retrieve data from multiple tables, SQL joins.
- ✓ Perform descriptive and relationship analysis using statistics
- ✓ Perform explorative data analytics using visualizations
- ✓ Create interactive dashboards and do story telling using tableau
- ✓ Perform data analytics using Power BI and Goole Studio

Description

This course is aimed for students who want to become a data analyst or as a first step for those who want to become a data scientist or machine learning engineer or AI programmer.

Course Outcome (CO)

While successfully completing this course, the learner will be able to:

- Perform descriptive , relationship, and explorative data analytics in excel and tableau.
- Create interactive dashboards and do storytelling
- Use different analytics tool such as Power BI and Google Data Studio

Course Contents

1. SQL Basics

- What is Database and Types of Databases
- Creation of Database and Table
- Data Types in SQL and Constraints in SQL
- DDL Commands in SQL
- DML Command in SQL
- Retrieve Data from Multiple Tables
- Inbuilt Functions in SQL

- SQL Joins

2. Descriptive Statistics Analysis using Excel

- What is Statistical Analysis and why statistical Analysis
- Measures of Central Tendency (Mean,Median,Mode)
- Measures of Dispersion (Range, Standard Deviation, Variance)
- Skewness and Kurtosis

3. Relationship Analysis using Statistics

- Scatter Plot
- Correlation Analysis
- Linear Regression Analysis

4. Filters in Tableau

- What is Filter
- Ways To Filter Tableau
- Interactive Filters and Different Layout of Interactive Filters
- Filters Shelf in Tableau
- Parameter and Set Filter
- Date Filter

5. Table Calculation and Create Calculated Field in Tableau

6. Explorative Data Analysis using Visualization

1. Using Common Chart Types

- i. Column Chart/Bar Chart
- ii. Area Chart



- iii. Scatter Chart
- iv. Map Chart
- v. Pie Chart
- vi. Tree Maps
- vii. Bubble Chart

2. Using Advanced Chart Types

- i. Lollipop Chart
- ii. Pareto Chart
- iii. Candle Stick Chart
- iv. waterfall chart

7. Analyse Data in Tableau

1. Trend Analysis

- Add Reference Lines, Bands, Distributions, and Boxes
- Add Trend Lines to a Visualization

2. Find Clusters in Data

3. Forecasting

8. Interactive Dash Boards and storytelling using tableau

1. Actions in Tableau

- Action By Filter
- Action By Highlight
- Action By URL

2. Dashboard Format in Tableau

3. Story Point in Tableau



9. Data Analytics Using Tableau in Different Sectors

- Retail Store Data Set
- HR Data Set

10. Power BI

1. Introduction to Power BI

- What is Power BI?
- Power BI V/S Tableau

11 . Power BI Desktop

- Install and run Power BI Desktop
- Connect to Data
- Transforming Data Using Power BI
- Data Modeling

12. Build Reports and Dashboard Using Power BI

- Power BI-Visualization Options
- Filters and Slicer in Power BI
- Create Report and Dashboard
- Sharing Reports

13. Q & A in Power BI Desktop

14. Analyse Data in Power BI Desktop

15. Data Analytics Using Power in Different Sectors

- Event Data Set
- Revenue Data Set

16. Google Data Studio

- What is Google Data Studio

- Advantages of Google Data Studio

17. Get Started with Google Studio

- Choosing a template.
- Connecting data sources.
- Choosing metrics that matter.
- Sharing reports

18. Miniproject(Using Tableau and Power BI Desktop)

Recommended Learning Path

1. Certification on Data Analytics -----> Data Analytics Elite
2. Certification on Data Analytics -----> Data Analytics Elite ----- > Python for Data Analytics
3. Certification on Data Analytics -----> Python for Data Analytics-----> Advanced Data Analytics using Python
4. Certification on Data Analytics -----> Python for Data Analytics -----> Advanced Data Analytics using Python ----> Machine Learning
5. Certification on Data Analytics -----> Python for Data Analytics -----> Advanced Data Analytics using Python ----> Machine Learning -----> Basic AI with Deep Learning



Contact Us

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We have branches at Kochi, Thiruvananthapuram, Calicut and Bengaluru.