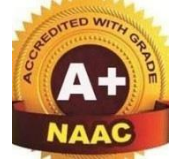




**SHRI GNANAMBICA DEGREE COLLEGE: MADANAPALLE  
(AUTONOMOUS)**

**II YEAR-IV SEM**



**PROGRAMME: BSC - DATA SCIENCE  
COURSE 3: DATA VISUALIZATION USING TABLEAU**

---

## **Unit I: Visual Analytics with Tableau**

### **5-Mark Questions**

1. Define visual analytics and explain its importance in Tableau.
2. Explain how to connect Tableau Desktop to data sources.
3. What are generated values in Tableau?
4. Write a short note on joining tables in Tableau.
5. Explain data blending in Tableau.

### **10 -Mark Questions**

1. Explain the process of creating visual analytics using Tableau Desktop.
2. Describe different ways to connect Tableau to data sources.
3. Explain generated values and their role in data analysis.
4. Discuss direct connection vs extract connection in Tableau.
5. Explain how tables are joined in Tableau with examples.

## **Unit II: Building your First Visualization**

### **5-Mark Questions**

1. Explain how Tableau works.
2. List and explain any four chart types in Tableau.
3. What is a text table?
4. Explain sorting data in Tableau.
5. Write a short note on filters in Tableau.

## **10-Mark Questions**

1. Explain the steps involved in building your first visualization in Tableau.
2. Describe different chart types such as bar, line, area, and pie charts.
3. Explain scatter plot, bullet graph, and Gantt chart.
4. Discuss the importance of sorting data in visual analysis.
5. Explain how views can be enhanced using filters, sets, groups, and hierarchies.
6. Describe the role of maps in data visualization.

### **Unit III: Calculations to enhance your data**

#### **5-Mark Questions**

1. Define aggregation in Tableau.
2. What are calculated fields?
3. Explain table calculations.
4. Write a short note on the calculation dialog box.
5. What are table calculation functions?

#### **10-Mark Questions**

1. Explain how calculations enhance data analysis in Tableau.
2. Describe aggregation with suitable examples.
3. Explain calculated values and table calculations in detail.
4. Explain how to build formulas using table calculations.
5. Discuss various table calculation functions available in Tableau.

### **Unit IV: Using Maps to Improve Insights**

#### **5-Mark Questions**

1. Explain the importance of maps in Tableau.
2. What is a standard map view?
3. Write a short note on plotting custom locations on a map.

4. Explain how to replace Tableau's standard maps.
5. What is point-to-point mapping?
6. Explain the need for shaping data for mapping.

### **10-Mark Questions**

1. Explain how maps improve insights in Tableau.
2. Describe the steps to create a standard map view.
3. Explain how to plot your own locations on a Tableau map.
4. Discuss the process of replacing Tableau's standard maps.
5. Explain data shaping techniques for geographical analysis.

## **Unit V: Adhoc Analysis Environment**

### **5-Mark Questions**

1. Define adhoc analysis.
2. Explain forecasting in Tableau.
3. What are parameters in Tableau?
4. Write a short note on self-service analytics.
5. Explain editing views in Tableau Server.
6. What is Tableau Server?

### **10- Mark Questions**

1. Explain how to develop an adhoc analysis environment in Tableau.
2. Describe the process of generating new data using forecasts.
3. Discuss the role of self-service analytics in Tableau.
4. Explain how views are edited and managed in Tableau Server.
5. Describe the advantages of using Tableau Server for analytics.