

Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)



Data
Visualization
using Tableau
(CC-DVUT)

Department of IT-CS-DS

Data Visualization Using Tableau

Course Code-CCDVUT

Tableau is a popular data visualization tool that is used by businesses of all sizes to transform raw data into interactive dashboards and visualizations. It is a drag-and-drop platform that requires no coding skills, making it easy for anyone to use.

JOIN NOW

PROJECT COURSE

KEY TOPICS

27TH FEB 24

4TH MAR 24

- BUSINESS INTELLIGENCE
- DATA VISUALIZATION
- DATA COLLABORATION
- DATA BLENDING
- REAL-TIME DATA ANALYSIS
- TO CREATE NO-CODE DATA QUERIES

FOR MORE INFORMATION

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**READY TO LEARN
SOMETHING
AWESOME TOGETHER**



DEPARTMENT OF IT-CS-DS



CERTIFICATE COURSE FORMAT

Sr. No	Particulars			
	Department	IT-CS-DS		
	Name of the Course	Data Visualization using Tableau		
	Code	CC-DVUT		
	Duration	30Hours		
	Date of Commencement	27-02-2024		
	Curriculum /Syllabus copy of the course	<p>Course description: Proficiency in utilizing Tableau for various data visualization tasks. Ability to create dynamic and interactive dashboards and visualizations. Competence in data preparation, cleaning, and blending for effective analysis. Understanding of advanced data analysis techniques, including trend analysis and geographic visualization. Skill in effectively communicating data- driven insights through compelling visual stories and presentations.</p>		
		Module	Duration	Topic
		1	5 hours	<p>Unit 1: Introduction to Tableau and Basic Visualization Techniques</p> <p>1.1. Overview of Tableau: Introduction to the software, its features, and capabilities.</p> <p>1.2. Data Connection: Understanding data</p>



				<p>1.3. Basic Visualizations: Creating basic charts such as bar graphs, line charts, and scatter plots.</p> <p>1.4. Filters and Parameters: Implementing filters and parameters to customize visualizations.</p>
		2	5 hours	<p>Unit 2: Intermediate Visualization Techniques and Dashboard Creation</p> <p>2.1. Advanced Charts: Learning to create advanced visualizations like heat maps, boxplots, and histograms.</p> <p>2.2. Calculated Fields: Exploring the creation of calculated fields for complex data manipulation.</p> <p>2.3. Groups and Sets: Understanding how to create groups and sets for better data segmentation.</p> <p>2.4. Interactive Dashboards: Building interactive dashboards using multiple visualizations.</p>
				<p>Unit 3: Advanced Analysis and Storytelling with Data</p> <p>3.1. Advanced Calculations: Implementing level of detail</p>



		3	5 hours	<p>calculations and table calculations.</p> <p>3.2. Mapping and Geographic Visualization: Visualizing spatial data and creating geographic maps.</p> <p>3.3. Trend Analysis and Forecasting: Utilizing Tableau for trend analysis and Forecasting techniques.</p> <p>3.4. Storytelling with Data: Crafting compelling data-driven stories using visualizations and dashboards.</p>
		4	5 hours	<p>Unit 4: Data Preparation and Publishing</p> <p>4.1. Data Cleaning and Preparation: Techniques for data cleaning and transforming data for analysis.</p> <p>4.2. Data Blending: Blending data from multiple sources for comprehensive analysis.</p> <p>4.3. Performance Optimization: Optimizing performance for large datasets and complex visualizations.</p> <p>4.4. Publishing and Sharing: Understanding how to publish and share visualizations Both locally and on the web.</p>



		<p>Reference Book:</p> <p>1. Learning Tableau 2020, Create effective data visualizations, build interactive visual analytics, and transform your organization. Joshua Milligan, Fourth Edition, Packt, 2020.</p> <p>2. Visual Data Storytelling with Tableau, Linda Ryan, Pearson Addison Wesley Data & Analytics Series, 2018</p> <p>3. Visual Analytics with Tableau, Alexander Loth, Wiley, 2019</p>
	Committee (BoS) for framing of syllabus	<p>1. Chairman : 1. Dr. Sampada Deshmukh 2. Mrs. Jagruti Raut</p> <p>2. Coordinator: 1. Ms. Anuja Patil 2. Ms. Binita Thakkar 3. Ms. Shweta Yande</p> <p>3. Member: 1. Mrs. Kshitija Palav</p> <p>2. Dr. Priyanka Brid 3. Mrs. Archana Raut 4. Dr. Guari Vartak 5. Mrs. Jyoti Jadhav 6. Mrs. Prajakta Hatkar</p>
	Mode of Delivery of the curriculum	Hybrid Mode
	Assessment procedure	Test, Assignments, etc.
10.	Outcomes of the program	<p>1. Learner will be able to connect to diverse data sources, and create basic visualizations like bar graphs and scatterplots with customizable filters and parameters.</p> <p>2. Learner will be able to apply advanced visualizations (heat maps, box plots, histograms), calculated fields, and groups/sets for nuanced data manipulation.</p>

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		<p>In intermediate Tableau techniques.</p> <p>4. Learner will be able to implement advanced Tableau skills, including level of detail and table calculations, geographic visualization, trend analysis, and storytelling through compelling data-driven narratives.</p> <p>5. Learner will be able to improve efficiency in data cleaning, blending, performance optimization, and publishing techniques, enabling effective preparation and sharing of visualizations Locally and online.</p>
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Name & Signature of Course Coordinator

Mrs. Jagruti Raut

Name & Signature of HOD/ Coordinator

Dr. Sampada Deshmukh