Course	**Vocational Skills in Accounting & Finance Paper – IV (Data Visualization) (Semester II; Level 4.5)**	**Credits**	**02**
Type	**VSC, SEC: (VSEC)**	**No of Teaching hours**	**30**
Evaluation/ Assessment	**50 marks - 30 marks semester end evaluation and 20 marks continuous evaluation**		

Preface

In the era of big data and information overload, the ability to effectively visualize and communicate financial data is a critical skill for professionals in any industry. This course on data visualization for finance introduces learners to the fundamental principles and techniques of visualizing financial data using tools like Excel.

By mastering data visualization techniques such as line charts, bar charts, and scatter plots, learners will enhance their analytical skills and gain a deeper understanding of financial trends and patterns. These skills are not only valuable in the field of finance but also in a wide range of industries where data-driven decision-making is essential.

Moreover, in today's digital age, employers are increasingly seeking candidates who can not only analyse data but also present it in a clear and compelling manner. This course is designed to equip learners with the skills they need to succeed in the modern workforce, where the ability to visualize data is a key asset.

Aims and Objectives

CO1	To understand the meaning, need, and principles of data visualization, specifically in the context of financial data.
CO2	To familiarize learners with various types of financial data visualization techniques and their appropriate use in different scenarios.
CO3	To develop proficiency in creating and reporting financial data using Excel and other visualization tools.

Learning Outcomes

On successful completion of the course, the learners will be able to

LO1	Learners will be able to explain the importance of data visualization in financial analysis and decision-making.
LO2	Learners will be able to identify and apply the appropriate data visualization techniques for different types of financial data.
LO3	Learners will gain practical skills in creating and reporting financial data using a variety of charts and graphs, enhancing their ability to communicate complex financial information effectively.

Module No	Content	No of Hours
1. **Introduction to Data Visualization**	• Meaning, Need, Importance and Principles of data visualization. • Types of Financial Data Visualization: Line charts, Bar charts, Pie charts, histogram, scatter plot, area chart, radar chart and candlestick charts. (Need and when to use them)	15
2. **Creating charts using excel.**	• Creating and reporting data using Line charts, Bar charts, Pie charts, histogram, scatter plot, area chart, radar chart and candlestick charts with excel/ other tools.	15

(Note: The module/s are to be taught with the help of the computer wherever practical exposure is required)

Information: Model question paper for external exam will be provided during the workshops.

Reference books.
1. Quick course in Micro-soft office - Joyce Cox, Polly Orban
2. Office 2013 complete reference - Stephen L.Nelson
3. Rajkamal, Internet and web Technologies, Tata McGraw Hill
4. Mastering Office 2013 - GimiCouster
5. Excel with Microsoft Excel: Comprehensive & Easy Guide to Learn Advanced MS Excel 2019 by Naveen Mishra.

Format of Question Paper: for the final examination
<u>**Attempt any 2 out of 3 questions.**</u>

Question No	Questions	Marks
Q1	Practical/ Theory	15
Q2	Practical/ Theory	15
Q3	Practical/ Theory	15
	TOTAL	**30**

Note
1. Equal Weightage is to be given to all the modules.
2. 15 marks question may be subdivided into 8 marks + 7 marks, 10 marks + 5 marks and 5 marks + 5 marks + 5 marks. Internal options may be given however it is not mandatory.
3. Use of simple calculator is allowed in the examination.
4. Wherever possible more importance is to be given to the practical problems.

Continuous Evaluation through:

	Assessment/ Evaluation	Marks
1.	Class Test during the lectures. (Physical/ Online mode). (Short notes/ MCQ's/ Match the Pairs/ Answer in one sentence/ puzzles)	10
2.	Participation in Workshop/ Conference/Seminar/ Case Study/Field Visit/ Certificate Course. (Physical/Online mode)	10
	TOTAL	**20**

Letter Grades and Grade Points:

Semester GPA/ Programme CGPA Semester/ Programme	% of Marks	Alpha-Sign/ Letter Grade Result	Grading Point
9.00 - 10.00	90.0 - 100	O (Outstanding)	10
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 - < 60.0	B (Above Average)	6
5.00 - < 5.50	50.0 - < 55.0	C (Average)	5
4.00 - < 5.00	40.0 - < 50.0	P (Pass)	4
Below 4.00	Below 40.0	F (Fail)	0
Ab (Absent)	-	Ab (Absent)	0