SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Programme: B.COM   Semester: III
Syllabus with effect from the Academic Year: 2022-2023

B.COM. SEMESTER-III		
Paper Code **UB03DCOM86**	**Title of the Paper** **Advanced Statistics – VI**	**Total Credit** **3**
Course Objectives	To familiarize students with the study of statistical process, tools and methods utilized along with Statistical concept.	

Course Description		
Unit	**Description**	**Weightage**
1.	**Input - Output Analysis** Meaning of Input - output analysis, assumption and limitations, Leontief's static open model - importance and application of the model, Simple examples up to the matrix of order 3×3.	**25%**
2.	**Distribution of Income and Economic Models** Concept of Income Distribution models, Study of Paroto's income distribution analysis and interpretations. Lorentz curve of concentration, Fitting of Pareto andLorentz curves - numerical examples only. Classical models- structural equations and structural parameters of model, Linear homogeneous equation system, study of (i) price determination model and (ii) income determination model.	**25%**
3.	**Time Series** Meaning and uses of time series, Various components of time series, determination of trend by using graphical, moving average and least square method, To separate seasonal component by using sale forecasts and seasonal variation by using moving average method, link relative method, with examples.	**25%**
4.	**Association of Attributes** Concept of Qualitative data Meaning of Association of attributes, Meaning and interpretation of 2 x 2 contingency table, Types of Association of attributes, method of studying association namely (i) Comparison method of observed and expected frequency(ii) Proportion method (iii) Coefficient of Association by Yule's method. (with its interpretation) examples based on 2 x 2 contingency table only	**25%**

*Units will have the same Weightage in the evaluation as suggested in the course outline.

Teaching- Learning Methodology	• Lecture Method • Online Lectures • Group Discussion • Practical Problem Solving

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage**
1.	Internal/Written Examination	**15%**
2.	Internal Continuous Assessment in the form of Practical, Viva-Voce, Quizzes, Seminars, Assignments, Attendance	**15%**
3.	University Examination	**70%**

* Students will have to score a minimum of 40 (Forty) Percent to pass the course.

Course Outcomes: Having Completed this course, the students will be able to	
1.	To understand Concept, theories and Approaches of Cost Accounting using appropriate supportive technologies in global context.
2.	Having Knowledge about Emerging Concepts in Cost and Management Accounting like Activity Based Costing, Target Costing etc.
3.	Management Skills will be developed
4.	It is very useful in further study like CA and CS.

Suggested References: (include Reference Material from where a student is expected to study the said content in APA Style) Reference Websites can also be included)	
Sr. No	**References**
1.	J. K. Sharma, Mathematics for Business and Economics, Asian Books PrivateLtd
2.	S. C. Gupta, V. K. Kapoor, Fundamentals of Applied Statistics, Sultan Chand & Sons, NewDelhi.
3.	David R. Anderson, Dennis J. Sweeney, Thomas A. Williams, StatisticsFor
4.	Business and Economics, South - Western Cengage Learning India Pvt. Ltd. New Delhi.
5.	S.C. Gupta: "Fundamentals of Mathematical Statistics" S. Chand, NewDelhi.
On-Line Resources available that can be used as Reference Material	
https://ugcmoocs.inflibnet.ac.in/view_module_ug.php/227	