



## **B. J. VANIJYA MAHAVIDYALAYA**

**(Autonomous)**

**(Grant-in-Aid)**

**(Affiliated to Sardar Patel University)**

**Vallabh Vidyanagar- 388 120, Dist. Anand, Gujarat, India**

**Accredited with CGPA of 2.78 on four-point scale at B++ Grade by NAAC**

**Syllabus as per the NEP 2020 with effect from December - 2024**

**Bachelor of Business Administration (General)**

**Semester – III**

<b>Course Code</b>	<b>UM03IDBBA01</b>	<b>Title of the Course</b>	<b>Statistics for Management</b>
<b>Total Credits of the Course</b>	<b>04</b>	<b>Hours per week</b>	<b>04</b>

<b>Course Objectives:</b>	<ol style="list-style-type: none"><li>1) To understand the basic concepts of Statistics.</li><li>2) To develop proficiency in the application to solve business problems by various Statistical Techniques.</li><li>3) To understand the important role of Statistical techniques in all facets of the Business Management world.</li><li>4) This course aims to furnish the students with the Statistical foundation required for business management and to know the function of Statistics in the Management field.</li></ol>
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<b>Course Content</b>		
<b>Unit No.</b>	<b>Description</b>	<b>Weightage (%)</b>
<b>1)</b>	<b>Correlation:</b> (a) Introduction and meaning, interpretation and types of correlation. (b) Method to study Correlation: Scatter Diagram, Karl Pearson's Product Moment Methods, Spearman's Rank correlation. (C) Properties of Correlation and Example based on Probable Error.	<b>25%</b>
<b>2)</b>	<b>Regression</b> (a) Introduction and meaning of Regression. (b) Regression Lines, Regression Coefficients, Regression Equations (c) Properties of Regression, examples based on regression line equations, regression co-efficient.	<b>25%</b>
<b>3)</b>	<b>Index Numbers</b> (a) Introduction and Meaning and Importance of Index Numbers. (b) Construction of wholesale Price Index Number (c) Time Reversal Test and Factors Reversal Test (d) Cost of Living Index Number and related examples.	<b>25%</b>



<b>4)</b>	<b>Time series Analysis</b> (a) Meaning, importance and components (b) Methods to study trend: Free hand curve, Moving average (3,4,5 yearly), Least square method (Linear Trend) (c) Seasonal indices by Simple average method.	<b>25%</b>
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<b>Teaching-Learning Methodology</b>	The course would be taught /learnt through ICT (e.g. Power Point Presentation, Audio-Visual Presentation), Lectures, Group Discussions, Quizzes, Assignments, Case Study and Browsing E- Resources.
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### **Internal and External Examination Evaluation**

<b>Sr. No.</b>	<b>Details of the Evaluation / Exam Pattern</b>	<b>50 Marks (%)</b>	<b>25 Marks (%)</b>
<b>1</b>	<b>Class Test (at least one)</b>	<b>15 (30%)</b>	<b>10 (40%)</b>
<b>2</b>	<b>Quiz (at least one)</b>	<b>15 (30%)</b>	<b>05 (20%)</b>
<b>3</b>	<b>Active Learning</b>	<b>05 (10%)</b>	<b>----</b>
<b>4</b>	<b>Home Assignment</b>	<b>05 (10%)</b>	<b>05 (20%)</b>
<b>5</b>	<b>Class Assignment</b>	<b>05 (10%)</b>	<b>----</b>
<b>6</b>	<b>Attendance</b>	<b>05 (10%)</b>	<b>05 (20%)</b>
<b>Total Internal (%)</b>		<b>50 (100%)</b>	<b>25 (100%)</b>
<b>Final Examination (%)</b>		<b>50 (100%)</b>	<b>25 (100%)</b>

<b>Sr. No.</b>	<b>Course Outcomes: Having completed this course, the learner will be able to</b>
<b>1)</b>	To have a proper understanding of Statistical applications in Economics, Finance, Commerce and Management Integrate international business concepts with functioning of global trade.
<b>2)</b>	Convert the problem into a Statistical model and solve it manually.
<b>3)</b>	Student should demonstrate proficiency in calculating and interpreting Linear Correlation and Linear Regression, using them in solving systems of linear equations, and applying them to model real-world business scenarios.
<b>4)</b>	Understand and critically discuss the issues surrounding sampling and significance

<b>Sr. No.</b>	<b>Suggested References:</b>
<b>1)</b>	Sancheti & Kapoor: Statistic: Theory, Methods and Applications, Sultan Chand & Sons, New Delhi.
<b>2)</b>	Kapoor, V. K.: Business Mathematics, Sultan Chand and Sons, New Delhi.
<b>3)</b>	Soni, R. S.: Business Mathematics, Pitamber Publishing House.
<b>4)</b>	H. A. Taha, Operations Research Macmillan Publishing Co. Inc.
<b>5)</b>	J. K. Sharma: O. R. Theory and Applications, Macmillan India Ltd.
<b>6)</b>	A.J. Patel, H.S. Doshi: Operations Research, Himalaya Publishing House.



<b>Sr. No.</b>	<b>On-Line Resources available that can be used as Reference Material</b>
<b>1)</b>	<a href="https://ugcmoocs.inflibnet.ac.in/view_module_ug.php/157">https://ugcmoocs.inflibnet.ac.in/view_module_ug.php/157</a>
<b>2)</b>	<a href="https://youtu.be/86NwKBcOlow">https://youtu.be/86NwKBcOlow</a>
<b>3)</b>	<a href="https://youtu.be/Ow3XWYnPgSM">https://youtu.be/Ow3XWYnPgSM</a>
<b>4)</b>	<a href="https://www.youtube.com/live/8npk04bd2XA?feature=share">https://www.youtube.com/live/8npk04bd2XA?feature=share</a>