



# C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: **Computer Science**  
 Course: **Bachelor of Computer Applications**  
 Semester: **I**  
 Subject Code: **4CS01ABS1**  
 Subject Name: **Business Statistics**

Sr. No	Branch Code	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								
				Th	Tu	Pr			Theory				Practical				Total
									Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams		
									Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration	
2	2	4CS01ABS1	Business Statistics	4	--	--	4	4	15(SE)	1Hr.	70	2½ Hrs.	--	--	--	--	100
									15(CE)								

### AIM :

The course content has wider applications in various fields where specialists can play a vital role in converting data into wealth. It has a lot of employment potential such as data analysts and consultants. The aim is to familiarize:

- With concepts of statistics
- with Data collection, classification and presentation
- with tools and techniques available for data analysis
- with data analysis and interpretation
- facilitating informed decision making in the corporate sector

### COURSE CONTENTS

#### Unit I 4 Hrs.

- Introduction To Statistics
- Functions Of Statistics
- Collection Of Data
- Presentation Of Data

#### Unit II 6 Hrs.

- Tabulation of data
- Charting of data
- Introduction to excel/spss

#### Unit III 4 Hrs.

- Measures of central tendency
- mean
- median - meaning and computation
- mode - meaning and computation
- weighted average mean,

<b>Unit IV</b>	<b>6 Hrs.</b>
<ul style="list-style-type: none"> <li>• Geometric Mean And Harmonic Mean</li> <li>• Measures Of Dispersion</li> <li>• Types Of Dispersion</li> <li>• Standard Deviation</li> </ul>	
<b>Unit V</b>	<b>4 Hrs.</b>
<ul style="list-style-type: none"> <li>• Co-efficient of variation</li> <li>• karl pearson co-efficient of skewness</li> <li>• correlation</li> </ul>	
<b>Unit VI</b>	<b>6 Hrs.</b>
<ul style="list-style-type: none"> <li>• Karlpearson's Co-Efficient Of Correlation</li> <li>• Rank Correlation Coefficient</li> <li>• Regression Analysis</li> <li>• Regression - Arithmetic Mean</li> </ul>	
<b>Unit VII</b>	<b>6 Hrs.</b>
<ul style="list-style-type: none"> <li>• Regression-Assumed Mean</li> <li>• Regression Coefficients</li> <li>• Multiple Correlation And Regression</li> <li>• Index Number- Introduction</li> </ul>	
<b>Unit VIII</b>	<b>4 Hrs.</b>
<ul style="list-style-type: none"> <li>• Methods Of Constructing Index</li> <li>• Weighted Index Numbers</li> <li>• Fisher's Ideal Method</li> </ul>	
<b>Unit IX</b>	<b>6 Hrs.</b>
<ul style="list-style-type: none"> <li>• The Chain Index Numbers</li> <li>• Consumer Price Index Numbers</li> <li>• Testing Of Hypothesis</li> <li>• Meaning &amp; Types</li> <li>• One-Tailed And Two Tailed Tests</li> </ul>	
<b>Unit X</b>	<b>6 Hrs.</b>
<ul style="list-style-type: none"> <li>• Methods Of Testing Of Hypothesis</li> <li>• Z Test - Meaning And Computation</li> <li>• One Sample Test- Meaning And Computation</li> <li>• Chi Square Test-Meaning And Computation</li> </ul>	

**REFERENCE BOOKS:**

1. Fundamentals of Statistics: D. N. Elhance, Veena Elhance and B. M. Aggarwal
2. Statistical Methods: S. P Gupta.
3. Fundamentals of Statistics: S.C Gupta
4. Practical Statistics: R S N Pillai and Bhagavathi
5. Statistics (Theory, Methods and Application): D.C. Sancheti and V.K. Kapoor

**NPTEL COURSE (<https://nptel.ac.in/>):**

1. Business Statistics by Prof. Mukesh Kumar Barua  
Course Link: <https://nptel.ac.in/courses/110107114>