

C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: Computer Science

Course: Bachelor of Computer Applications

Semester: I

Subject Code: MDC201-1C

Subject Name: FOUNDATION IN STATISTICAL METHODS

C	Categor y	Subject Code	Subject Name	Teaching hours/ Week				Evaluation Scheme/ Semester									
Sr N o				T h	Tu	P r	Credi t hours	Credi t Points	Continuous and		End Semester Exams				Practical End Semester Exams		Tota
									Mark s	Activity	Mar ks	Duratio n	Mark s	Duratio n	Mark s	Duratio n	1
4	MDC	MDC201 -1C	FOUNDATIO N IN STATISTICA L METHODS	4	1 1		4	4	20 20 10	Assignment MCQ Attendance	50	2			1	-	100

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

COURSE CONTENTS

Unit I Introduction to Statistics

(08 Lectures)

- Introduction to Statistics
- Functions of Statistics
- Collection of Data
- Presentation of Data
- Tabulation of data
- Charting of data

Unit II Central Tendency

(08 Lectures)

- Measures of central tendency
- Mean meaning and computation
- Median meaning and computation
- Mode meaning and computation
- Weighted average mean
- Geometric Mean, Harmonic Mean and Arithmetic Mean

Unit III Dispersion (05 Lectures)

- Measures of Dispersion
- Types of Dispersion
- Standard Deviation
- Co-efficient of variation

Unit IV Correlation (08 Lectures)

- Correlation—Introduction
- Karlpearson's Co-Efficient of Correlation
- Rank Correlation Coefficient.

Unit V Regression (08 Lectures)

- Regression Introduction
- Regression Analysis
- Regression Coefficients

Unit VI (08 Lectures)

- Index Number Introduction
- Methods of Constructing Index
- Weighted Index Numbers
- Fisher's Ideal Method

Arrangement of lectures duration and practical session as per defined credit numbers:

Units	Lecture Dur (In Hrs.)	ation	Calculation Credits (In Numbers		Total Lecture Duration	Credit Calculation	
	Theory	Practical	Theory	Practical	Theory +	Theory +	
					Practical	Practical	
Unit 1	08	00			08		
Unit 2	08	00			08		
Unit 3 05		00	3	0	05	3	
Unit 4	08	00] 3	U	08	3	
Unit 5	08	00			08		
Unit 6 08 00					08		
Total	45	00	3	0	45	3	

Evaluation:

Theory Marks	Practical Marks	Total Marks
100	00	100

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/):

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