M.S.G. Arts, Science and Commerce College, Malegaon-Camp Malegaon, Nashik-423105

Department of Economics

Value Added Course on-

STATISTICAL APPLICACTION IN RESEARCH METHODOLOGY

Academic year- 2021-22	<u>45 Hrs.</u>
Unit-1 Introduction of Research	7
1.1 Meaning and Definition of Research	
1.2 Types of Researchi. Basic or Pure or Fundamental Researchii. Applied Researchiii. Action Research	
1.3 Importance of Research	
Unit 2. Data Collection and Data Analysis	10
2.1 Meanings and Definition of Data Collection	
I. Primary Data,	
II. Secondary Data Sources	
2.2 Meaning and Definition of Data Analysis	
I. Graphs	
II. Tabulations	
 2.3 Statistical Series I. Geographical Series, II. Time Series, III. Qualitative Series, IV. Quantities Series 	
2.4 Frequency	

i. Frequency Distribution

ii. Cumulative Frequency	
iii. Class Boundaries	
iv. Midpoint Frequency	
v. Class Width	
Unit 3. Measures of Central Tendencies and Dispersion	8
3.1 Definition of Mean	
3.2 Definition of Medium	
3.3 Definition of Mode	
3.4 Meaning of Dispersion	
3.5 Definition -Range,	
3.6 Median Deviation,	
3.7 Standard Derivation and Standard Error	
Unit 4 Correlation Analysis	8
4.1 Meaning and Definition	
4.2 Types of Correlation	
4.3 Correlation Coefficient;	
I. Karl Pearson Method,II. Spearman Method	
Unit 5 Testing and Hypothesis	12
I. Null Hypothesis	
II. Alternative Hypothesis	
III. Tests Analysis	
i. t -tests	
ii. f- test iii. z- test	
iv. Chi – Square test	
IV. Table Values	
CVIII	

Head
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