

Paper No – 16 Statistical Application in Libraries

| Unit No. | Topic Name | Content | Hrs. | Marks | Credit |
|----------|------------------------|--|------|-------|--------|
| 1. | Basic of Statistical | <ul style="list-style-type: none"> • Meaning and definition of statistics • Development of statistics as a discipline. • Use of statistics in various subject research and other activities. • Statistics as a interdisciplinary subject. • Type of data- primary and secondary. Sources of primary and secondary data • Data collection • Frequency distribution and tabulation • Representation of data in a various formats. | | | |
| 2. | Descriptive statistics | <ul style="list-style-type: none"> • Measurement of central tendency mean, mode and median and its use. • Measurement of Dispersion, standard deviation, quarter deviation and its use. • Ratio analysis. • Sampling method • Population mean and sample mean • Index number • Scaling methods | | | |
| 3. | Statistical methods | <ul style="list-style-type: none"> • Correlation liner and nonlinear, Correlation Coefficient- Karl Pearson and Ranking Correlation of two variables regarding Library, Users and statistics. Examples • Regression liner and nonlinear, Regression Coefficient of two regression line. Regression line of two variables regarding Library, Users and statistics. Examples • Time series – trend line with different method. • Probabilities with examples. • Probability distribution with examples. | | | |

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| 4. | Various testing method | <ul style="list-style-type: none"> • Hypothesis testing and various testing methods. • Parametric and non parametric testing. • 'T' test, 'F' test, 'chi-square' test, • Scaling method and testing, • SLI and its testing, • 'Z²' testing etc. | | | |
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Reference Books

1. Research And Statistical Techniques in Library And Information Science- M.S. Negi
2. Statistical methods – by Guptra C. B. Pub. By S. Chand and Co., New Delhi
- 3.. Statistical methods – by Guptra C. B. Pub. By S. Chand and Co., New Delhi
4. Statistical methods – by Guptra S. C. Pub. By Himalaya pub. House, Mumbai
5. Encyclopedia Libraries Information Management-Dr. Sunil Kumar
6. Stactical Methods for Library And Information Center by S.R.Sarda And Shri Nivasan

Gujarati Reference Books

૧. સંશોધન પદ્ધતિ (વાર્તાનીક વિજ્ઞાનમાં) – પ્રા. ડા. એલ આર યાજ્ઞિક
૨. સંશોધન પદ્ધતિઓ અને પ્રવિધીઓ – દેસાઈ હરિભાઈ અને દેસાઈ કૃષ્ણકાંત
૩. સંશોધન પદ્ધતિઓ – શાહ એન્ડ દવે જી.કે.
૪. સામાજીક સંશોધન પદ્ધતિઓ – દેસાઈ અરવિંદભાઈ
૫. સંશોધન અને આંકડાશાસ્ત્રીય પદ્ધતિઓ – સી, જમનાદાસની કંપની, અમદાવાદ
૬. અપ્રાયલિય આંકડાશાસ્ત્રીય પરીક્ષણો – સુરેશ પારેખ, પ્રકાશક-લેખક, જુનાગઢ
૭. વાર્તાનીક વિજ્ઞાનો માં મનોવૈજ્ઞાનીક પરીક્ષણો – સુરેશ પારેખ, પ્રકાશક-લેખક, જુનાગઢ
૮. ઉચ્ચત્તર આંકડાશાસ્ત્ર-૨, બી.એસ.શાહ પ્રકાશન, અમદાવાદ