

SARDAR PATEL UNIVERSITY
THIRD SEMESTER
(EFFECTIVE FROM JUNE, 2011)
SUBJECT: STATISTICS
COURSE CODE: US03CSTA03
(PRACTICALS)

Course credit: 3

No .of lectures per week: 6

Weightage: Internal – 30%, External – 70%

Section-I (Manual)

- **Concepts of permutation and combination and their applications to the daily life.**
- **Construction of frequency distribution**
- **Analysis of Quantitative data**
- **Computation of various measures of central tendency and partition values**
- **Measures of dispersion**
- **Skewness**
- **Kurtosis**
- **Index numbers**
 - **Methods of constructing index numbers**
 - **Simple (Unweighted) Aggregate method**
 - **Weighted Aggregate method**
 - **Laspeyre's Price Index**
 - **Paasche's Price Index**
 - **Fisher's Price Index**
 - **Marshall Edgeworth Price Index**
 - **Tests of consistency of Index number**
 - **Time reversal test**
 - **Factor reversal test**
- **Vital Statistics**
 - **Measurement of Mortality:**
 - **Crude Death Rate (CDR)**
 - **Specific Death Rate (SDR)**
 - **Standardized Death Rate (STDR)**
 - **Measurement of Fertility:**
 - **Crude Birth Rate (CBR)**
 - **General Fertility Rate (GFR)**
 - **Specific Fertility Rate (SFR)**
 - **Total Fertility Rate (TFR)**

Section-II (Pascal Programming)

- **Write a Pascal program to calculate**
 - **A.M,G.M,H.M and C.V for ungrouped and grouped data**
 - **Coefficient of skewness and kurtosis**
 - **Median and Mode for ungrouped and grouped data**

