

# STAT SYLLABUS

Statistics Paper-7: Statistical Analytical Methods

(Major/Minor) (4 credit)

T.Y. [B.COM](#) SEM-VI

As per NEP 2020

To be implemented from the Academic year 2025-26

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Unit-1: (40%)

Nonparametric tests:

Introduction

Comparison of parametric and non-parametric tests

Sign test for single sample and paired samples

Wilcoxon signed-rank test for one sample and paired samples

Mann-Whitney test

Median test.

Meaning

Unit-II: (20%)

Demography:

Uses and

Methods of collecting demographic statistics

Defects of demographic statistics

Mortality and Fertility:

Infant mortality

Neonatal mortality

Maternal mortality

Death rates

Standardized death rates

Unit-III: 20%)

Fertility and Reproduction:

Crude Birth Rate (CBR)

General Fertility Rate (GFR)

Age specific fertility rate

Total Fertility Rate (TFR)

Gross Reproduction Rate (GRR)

Net Reproduction Rate (NRR)

Unit-IV: (20%)

National Income:

Concept of National Income

Uses and

Methods of its estimation

Lorenz curve and Pareto's law of Income distributions

Derivations and Applications.