

Computer Engineering Department

Government Engineering College Dahod

Syllabus for Mid-Semester Exam – II

3rd Semester (BE)

Course Code: COMP302

Subject Name: Probability and Statistics(3130006)

ODD TERM 2023-24

**Sr. Topics
No.**

1 Basic Statistics:

- Measure of central tendency: Moments, Expectation, dispersion,
- Skewness, kurtosis, expected value of two dimensional random variable, Linear Correlation, correlation coefficient,
- Rank correlation coefficient, Regression, Bounds on probability,
- Chebyshev's Inequality

2 Some special Probability Distributions:

- Binomial distribution,
- Poisson distribution, Poisson approximation to the binomial distribution, Normal, Exponential and Gamma densities,
- Evaluation of statistical parameters for these distributions.