

Computer Engineering Department

Government Engineering College Dahod

Syllabus for Mid-Semester Exam

3rd Semester (BE)

Course Code: COMP302

Subject Name: Probability and Statistics (3130006)

ODD TERM 2024-25

**Sr. Topics
No.**

1 **Probability and Statistics: CO1**

- Conditional probability, independent events, Bayes' rule,
- Random variables, discrete random variable, probability mass function, continuous random variable, probability density function, cumulative distribution function, properties of cumulative distribution function,
- Two dimensional random variables and their distribution functions, Marginal probability function, Independent random variables

1 **Basic Statistics: CO 3**

- Measure of central tendency: Moments, dispersion, Skewness, kurtosis,

2 **Curve fitting: CO 5**

- Curve fitting by the numerical method: Curve fitting by of method of least squares,
- Fitting of straight lines,
- Second degree parabola and more general curves..