



COLLEGE OF ENGINEERING & TECHNOLOGY

## COMPUTER ENGINEERING DEPARTMENT

B.E. 3<sup>rd</sup> SEMESTER

## SUBJECT: PROBABILITY AND STATISTICS

SUBJECT CODE:3130006

Sr.No.	Topic	Link	By
1	Probability - Random Experiment & Sample Space	<a href="https://youtu.be/Cqsm5eVzQk">https://youtu.be/Cqsm5eVzQk</a>	Bhagwan Singh Vishwakarma / YouTube
2	Probability - Concept	<a href="https://youtu.be/32mjPX7kLd8">https://youtu.be/32mjPX7kLd8</a>	Bhagwan Singh Vishwakarma / YouTube
3	Concept of Conditional Probability	<a href="https://youtu.be/wGO7ZFo9Vz8">https://youtu.be/wGO7ZFo9Vz8</a>	Bhagwan Singh Vishwakarma / YouTube
4	Probability of Independent Events	<a href="https://youtu.be/auWGGQLUJSs">https://youtu.be/auWGGQLUJSs</a>	Bhagwan Singh Vishwakarma / YouTube
5	Total Probability and Bayes Theorem	<a href="https://youtu.be/pedDX225FPg">https://youtu.be/pedDX225FPg</a>	Bhagwan Singh Vishwakarma / YouTube
6	Overview Of Random Variable & Probability Distribution	<a href="https://youtu.be/V3iEsLPAD68">https://youtu.be/V3iEsLPAD68</a>	Dr.Gajendra Purohit / YouTube
7	Random Variable, Probability Mass Function, Distribution Function	<a href="https://youtu.be/7MJ3b_J_ZCE">https://youtu.be/7MJ3b_J_ZCE</a>	Dr.Gajendra Purohit / YouTube
8	Random Variable, Probability Density Function, Cumulative Distribution Function	<a href="https://youtu.be/l0ecMiNUZu8">https://youtu.be/l0ecMiNUZu8</a>	Dr.Gajendra Purohit / YouTube
9	Binomial Distribution   Mean & Variance   Moment	<a href="https://youtu.be/gT26Y_VJmOM">https://youtu.be/gT26Y_VJmOM</a>	Dr.Gajendra Purohit / YouTube
10	Binomial Distribution	<a href="https://youtu.be/Nhw5qGKZm5o">https://youtu.be/Nhw5qGKZm5o</a>	Dr.Gajendra Purohit / YouTube

11	Poisson Distribution	<a href="https://youtu.be/onFv73Btdno">https://youtu.be/onFv73Btdno</a>	Dr.Gajendra Purohit / YouTube
12	Poisson Distribution   Mean & Variance   Moment	<a href="https://youtu.be/pkpe4aMGRg8">https://youtu.be/pkpe4aMGRg8</a>	Dr.Gajendra Purohit / YouTube
13	Poisson Distribution Examples	<a href="https://youtu.be/raySzcgcBFk">https://youtu.be/raySzcgcBFk</a>	Dr.Gajendra Purohit / YouTube
14	Fitting of Poisson Distribution	<a href="https://youtu.be/v6M1-ljpSg4">https://youtu.be/v6M1-ljpSg4</a>	Dr.Gajendra Purohit / YouTube
15	Exponential Distribution	<a href="https://youtu.be/z5gongqrMv8">https://youtu.be/z5gongqrMv8</a>	Dr.Gajendra Purohit / YouTube
16	Mean and Variance of Normal Distribution	<a href="https://youtu.be/S8YrED3mf5s">https://youtu.be/S8YrED3mf5s</a>	Dr.Gajendra Purohit / YouTube
17	Normal Distribution   Moment	<a href="https://youtu.be/Hdhnq9Oyryc">https://youtu.be/Hdhnq9Oyryc</a>	Dr.Gajendra Purohit / YouTube
18	Normal Distribution	<a href="https://youtu.be/JeX5omyI6Aw">https://youtu.be/JeX5omyI6Aw</a>	Dr.Gajendra Purohit / YouTube
19	Normal Distribution	<a href="https://youtu.be/PJ5tTEiBthI">https://youtu.be/PJ5tTEiBthI</a>	Dr.Gajendra Purohit / YouTube
20	Mathematical Expectation, Variance Of Continuous & Discrete Random Variable	<a href="https://youtu.be/H2Ji-Q4MfqU">https://youtu.be/H2Ji-Q4MfqU</a>	Dr.Gajendra Purohit / YouTube
21	Skewness & Kurtosis   Moments   Leptokurtic, Mesokurtic, Platykurtic	<a href="https://youtu.be/m9a6rg0tNSM">https://youtu.be/m9a6rg0tNSM</a>	Dr.Gajendra Purohit / YouTube
22	Skewness & Kurtosis   Moments   Leptokurtic, Mesokurtic, Platykurtic	<a href="https://youtu.be/wDXMYRPup0Y">https://youtu.be/wDXMYRPup0Y</a>	Dr.Gajendra Purohit / YouTube
23	Correlation Coefficient	<a href="https://youtu.be/IBB4stn3exM">https://youtu.be/IBB4stn3exM</a>	Dr.Gajendra Purohit / YouTube
24	Rank Correlation Coefficient	<a href="https://youtu.be/0WejW9MiTGg">https://youtu.be/0WejW9MiTGg</a>	Dr.Gajendra Purohit / YouTube
25	Repeated Rank Correlation	<a href="https://youtu.be/G0H340p97YE">https://youtu.be/G0H340p97YE</a>	Dr.Gajendra Purohit / YouTube
26	Regression Coefficient	<a href="https://youtu.be/QAEZOhe13Wg">https://youtu.be/QAEZOhe13Wg</a>	Dr.Gajendra Purohit / YouTube
27	Regression Coefficient	<a href="https://youtu.be/ddYNq1TtxtM0">https://youtu.be/ddYNq1TtxtM0</a>	Dr.Gajendra Purohit / YouTube

28	Hypothesis Testing - Basics	<a href="https://youtu.be/7kb-a7n2bcQ">https://youtu.be/7kb-a7n2bcQ</a>	Dr.Puspendra/YouTube
29	Hypothesis Testing Related Questions   z Test  Null and Alternative Hypothesis	<a href="https://youtu.be/1bywo64eIC0">https://youtu.be/1bywo64eIC0</a>	Dr.Puspendra/YouTube
30	Hypothesis Testing Related Questions   z Test  Null and Alternative Hypothesis	<a href="https://youtu.be/OmiAZejDJLc">https://youtu.be/OmiAZejDJLc</a>	Dr.Puspendra/YouTube
31	Basics and Fundamental Properties of t-distribution	<a href="https://youtu.be/UW1tUJFmmm8">https://youtu.be/UW1tUJFmmm8</a>	Dr.Puspendra/YouTube
32	t-test   Applications and related Formulas	<a href="https://youtu.be/fF0tFUQv-c8">https://youtu.be/fF0tFUQv-c8</a>	Dr.Puspendra/YouTube
33	t-test   Questions and Solutions	<a href="https://youtu.be/gePqxb9Vxuo">https://youtu.be/gePqxb9Vxuo</a>	Dr.Puspendra/YouTube
34	t test   Questions and Solutions	<a href="https://youtu.be/MCxxkDheNa8">https://youtu.be/MCxxkDheNa8</a>	Dr.Puspendra/YouTube
35	F Test - Introduction and Formula	<a href="https://youtu.be/h5Glm738j84">https://youtu.be/h5Glm738j84</a>	Dr.Puspendra/YouTube
36	Properties of F Distribution	<a href="https://youtu.be/xLYgEUAOyTQ">https://youtu.be/xLYgEUAOyTQ</a>	Dr.Puspendra/YouTube
37	F Test   Question and Solution	<a href="https://youtu.be/poe2-Bxd150">https://youtu.be/poe2-Bxd150</a>	Dr.Puspendra/YouTube
38	Chi Square Test ( $\chi^2$ )  Basics	<a href="https://youtu.be/z6qZK5w3Zxc">https://youtu.be/z6qZK5w3Zxc</a>	Dr.Puspendra/YouTube
39	Chi Square Test ( $\chi^2$ ) - Applications   Goodness of Fit Test	<a href="https://youtu.be/7j-vKYDs_YM">https://youtu.be/7j-vKYDs_YM</a>	Dr.Puspendra/YouTube
40	Chi Square Test ( $\chi^2$ )  Question and Solution	<a href="https://youtu.be/sU5O1cJapvU">https://youtu.be/sU5O1cJapvU</a>	Dr.Puspendra/YouTube