Lesson Plan

Name of the Faculty : Dr. A. K. Gupta
Discipline   : Applied Sciences & Humanities
Semester   : 2nd
Subject   : Probability & Statistics (BS-134A)   (CSE)
Lesson Plan Duration   : 15 Weeks (from Jan - April, 2020)

Work Load: Lecture: 03, Tutorials: 01 per week

Week	Theory	
	Lecture Day	**Topic(including assignment /test)**
1st	1st	Measure of central tendencies, A. Mean
	2nd	Geometric & Harmonic mean
	3rd	Median & Quantities
2nd	4th	Mode, Measures of dispersion (Concept)
	5th	Mean Deviation
	6th	Standard deviation. Coefficient & variation
3rd	7th	Moments
	8th	Skewness and Kurtosis,
	9th	Correlation, Coefficient of correlation,
4th	10th	Rank correlation.
	11th	Lines of regression
	12th	Properties
5th	13th	Test
	14th	Probabilities, Additive law, Independent Events
	15th	Mutually Exc. Events, Conditional Probability
6th	16th	Problems
	17th	Bayes' Theorem.
	18th	Random Variables: Discrete random variables
7th	19th	Probability distribution and mass function
	20th	Expectation, Moments
	21st	Variance and standard deviation of Disc. variables.
8th	22nd	Test
	23rd	Continuous random variables
	24th	Probability distribution and density function
9th	25th	Expectation, Moments
	26th	Variance and standard deviation of Continuous random variables.
	27th	Binomial distributions:
10th	28th	Properties of parameters
	29th	Poisson distributions
	30th	Properties of parameters
11th	31st	Normal distributions
	32nd	Properties of parameters
	33rd	Test
12th	34th	Curve fitting, Fitting a straight line
	35th	Fitting of second degree curve,

	36th	Fitting of higher degree polynomial,
13th	37th	Fitting of an exponential curve of the form $y = ab^x$.& $y = ax^b$
	38th	Concept of Testing of hypothesis, Errors
	39th	Large sample test, Z Test
14th	40th	Test for properties,single mean,
	41st	Test of difference of means
	42nd	Small Sample test , T- Test
15th	43rd	X^2 Test (Chi-square test)
	44th	Problems
	45th	Test

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