BHAI GURDAS INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCES

LESSON PLAN

Subject Name: - MATHEMATICS-II   **Subject Code: - BTAM-204-18**

Year: - 2022-23   **Semester: - 2ND**

Lecture	Unit	Date/ Week	Topic	Teaching Aids	Reference
Lecture :1	UNIT-I	WEEK-1	Collection of data	Chalk Board	N.P. Bali and Manish Goyal, A text book of Engineering Mathematics,
Lecture :2			Measures of central tendency	Chalk Board	
Lecture :3			Introduction to an quartile deviation	Chalk Board	
Lecture :4			Numerical problems	Chalk Board	
Lecture :5			Moments	Presentation	
Lecture :6			Skewness and Kurtosis	Presentation	
Lecture :9		WEEK-2	Variance and standard deviation	Chalk Board	
Lecture :10			Correlation and coefficient	Chalk Board	
Lecture :11			Numerical problems	Chalk Board	
Lecture :12			Introduction to probability	Chalk Board	
Lecture :13			Conditional probability	Chalk Board	
Lecture :14			Independence and examples of probability	Chalk Board	
Lecture :16		WEEK-3	Discrete random variable	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :17			Expectation of discrete random variable	Chalk Board	
Lecture :18	UNIT-II		Numerical problems	Chalk Board	
Lecture :19			**Binomial distribution**	Chalk Board	
Lecture :20			Mean and variance of B.D	Presentation	
Lecture :21			Fitting of binomial distribution	Chalk Board	
Lecture :24		WEEK-4	Poission distribution	Presentation	
Lecture :25			Mean and variance of P.D	Presentation	
Lecture :26			Numerical problems	Chalk Board	
Lecture :27			Fitting of poisssion distribution	Chalk Board	
Lecture :28			Normal distribution	Chalk Board	N.P. Bali and Manish Goyal
Lecture :29			Area property of normal distributions	Chalk Board	
Lecture :30		WEEK-5	Examples on N.D	Chalk Board	
Lecture :31			Important approximations of Distributions	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :32			Numerical problems	Chalk Board	
Lecture :33			Important approximations of Distributions	Chalk Board	

Lecture :34			Correlation	Chalk Board	
Lecture :35			Problem discussion	Chalk Board	
Lecture :36		WEEK-6	Correlation with examples	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :37			Rank correlation	Chalk Board	
Lecture :38			Numerical problems	Chalk Board	
Lecture :39			Regression analysis	Chalk Board	
Lecture :40			Regression Equation X on Y and Y on X	Chalk Board	
Lecture :41			Regression equation for correlation coefficients	Chalk Board	
Lecture :42	UNIT-III	WEEK-7	Continuous random variable	Chalk Board	
Lecture :43			Properties of C.R.V	Chalk Board	
Lecture :44			Numerical problems	Chalk Board	
Lecture :45			Examples based on C.R.V	Chalk Board	
Lecture :46			Distribution function	Chalk Board	
Lecture :47			Previous year question paper discussion	Class Test	
Lecture :48		WEEK-8	Normal Densities & Exponential densitites	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :49			Numerical problems	Chalk Board	
Lecture :50			Curve fitting by method of least square	Chalk Board	
Lecture :51			Fitting of Straight line	Chalk Board	
Lecture :52			Fitting of Straight line Second degree parabola	Chalk Board	
Lecture :53			Second degree parabola	Chalk Board	
Lecture :54		WEEK-9	Exponential curves	Chalk Board	
Lecture :55			Hypothesis testing	Chalk Board	
Lecture :56	UNIT-IV		Test of significance	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :57			Numerical problems	Chalk Board	
Lecture :58			Large sample test for single proportion	Chalk Board	
Lecture :59			Large sample test difference of proportion	Chalk Board	
Lecture :60		WEEK-10	Test of single mean and difference of mean	Chalk Board	
Lecture :61			Test for difference of standard deviations	Chalk Board	
Lecture :62			Numerical problems	Chalk Board	
Lecture :63			t-test for single mean for difference of mean	Chalk Board	

Lecture :64			t-test for correlation coefficient	Chalk Board	
Lecture :65			Test for ratio of variances	Chalk Board	
Lecture :66		WEEK-11	Inroduction of Chi-Square test	Chalk Board	Higher mathematics by B.S GREWAL
Lecture :67			Numerical problems	Chalk Board	
Lecture :68			Chi-Square test for goodness of fit	Chalk Board	
Lecture :69			Chi-Square test for independence of attributes	Chalk Board	