

BHAI GURDAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

SANGRUR

Department of Food Technology

LESSON PLAN

Name: Ms. Swati Priyadarshi

**Subject name: Statistics for Food
Technologists**

Branch/ Semester: 6th Sem.

Subject code: BTFT 320-19

Sr. No.	Lecture no.	Topics to be covered	Week/ date	Teaching aids	Remarks
1.	L-1	Unit I: Statistical terms and notations	1st Week	Black board	
2.	L-2	frequency distribution, frequency curve		Black board	
3.	L-3	measures of central tendency and dispersion		Black board	
4.	L-4	Binomial distribution	2nd week	Black board	
5.	L-5	Poission distribution		Black board	
6.	L-6	Introduction to sampling, Types of sampling		Black board & PPT	
7.	L-7	Errors in sampling.	3rd week	Black board	
8.	L-8	Unit II: normal distribution, test of significance		Black board	
9.	L-9	null hypothesis, types of error, level of significance and degree of freedom	4th week	Black board & PPT	
10.	L-10	steps involved in testing of hypothesis		Black board & PPT	
11.	L-11	z-test, t-test, F test paired t- test		Black board & PPT	
12.	L-12	chi-square test for testing, goodness of fit and independence of attributes in 2×2 contingency table		Black board & PPT	
13.	L-13	Unit III: Statistical quality control,	5th week	Black board	

		advantages and limitations			
14.	L-14	Techniques of statistical quality control, control charts for variations,		Black board	
15.	L-15	\bar{x} and R chart, control chart for attribution, c chart, p chart, np chart	6th week	Black board & PPT	
16.	L-16	consumer risk, producer risk; Acceptance quality level (AQL)		Black board & PPT	
17.	L-17	Lot tolerance percentage quality level (LTPD), process average fraction defective	7th week	Black board & PPT	
18.	L-18	characteristic curve, simple and double sampling plans for prepackaged foods.	8th week	Black board & PPT	
19.	L-19	Unit IV: Correlation and regression		Black board & PPT	
20.	L-20	Analysis of variance	9th week	PPT	
21.	L-21	How to use excel; Overview of Computer aided statistical tools.		Black board & PPT	

(Course Incharge)