

### LESSON PLAN

SEMESTER	SUBJECT CODE	SUBJECT TITLE	L	T	P	C
IV	BCM1144	STATISTICS -II	4	1	0	4

**OBJECTIVE :** To understand the statistical tools applicable for business and for analyzing the data.

LECTURE NUMBER	TOPIC	REFERENCE
<b>UNIT 1</b>		
1,2.	Correlation- Introduction and Types.	Book 1-Ch.12
3,4.	Definition and types of Scatter Diagram.	Book 1-Ch.12
5,6,7.	Karl Pearson's Correlation Coefficient Problems.	Book 1-Ch.12
8,9,10.	Rank Correlation, Repeated Ranks, 3-Judges problems.	Book 1-Ch.12
11,12.	Concurrent Deviation.	Book 1-Ch.12
13.	Probable Error.	Book 1-Ch.12
14.	Regression –Introduction.	Book 1-Ch.13
15,16,17.	Finding Regression Equations.	Book 1-Ch.13
18,19,20.	Finding Regression coefficients from given equations.	Book 1-Ch.13
<b>UNIT 2</b>		
21,22.	Index Numbers- Introduction, Definition, Uses, Formulae.	Book 1-Ch.14
23,24,25.	Laspeyre's, Paasche's, Bowley's, Marshall-Edgeworth Index numbers.	Book 1-Ch.14
26,27.	Time Reversal Test, Factor Reversal Test.	Book 1-Ch.14
<b>UNIT 3</b>		
28,29.	Defintion and components of Time series,	Book 1-Ch.15
30,31.	Graphic Method, Semi-Average Method.	Book 1-Ch.15
332,33,34,35.	3,4,5-Yearly Moving Averages.	Book 1-Ch.15
36,37,38.	Fitting a Straight Line by Method of Least Squares.	Book 1-Ch.15
39,40.	Seasonal Indices by Average Method.	Book 1-Ch.15
41,42.	Seasonal Indices by Short Term Fluctuations.	Book 1-Ch.15
43,44.	Seasonal Indices by Ratio to Moving Averages.	Book 1-Ch.15
<b>UNIT 4</b>		
45.	Interpolation and Extrapolation-Definition and uses.	Book 1-Ch.16
46,47,48,49.	Newton's Forward and Backward Interpolation.	Book 1-Ch.16
50,51,52.	Lagrange's Interpolation method.	Book 1-Ch.16
<b>UNIT 5</b>		
53,54.	Linear Programming-Formation.	Book 2-Ch.2
55,56,57.	LPP-Graphical method.	Book 2-Ch.2
58,59,60,61.	Assignments.	Book 2-Ch.8
62,63,64,65.	Transportation.	Book 2-Ch.7
65-75	Revision.	

**REFEBCE BOOKS:**

1. Pillai R S N, Bagavathi V, Statistics, S Chand, New Delhi.
2. Sundaresan, V. Ganapathy Subramanian, K.S. and Ganesan.K(2011). Resource Management Techniques , A.R.Publications- Nagapattinam.