Dr. V. N. Bedekar Institute of Management, Thane
Teaching Plan (MMS/PGDM)
Academic Year (2014-15)

Programme Name: : MMS

Name of the Course: Business Statistics

Maximum marks: 100   No. of Sessions: 15

Name of the Faculty: Dr Sudhakar Agarkar and Ms Swapna Tamhankar
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Learning Objectives:

1. **Describe and explain statistical ideas, which we believe, are an essential part of the intellectual equipment for managers.**

2. **To understand why and when the various methods should be used or not used.**

3. **To focus attention to various assumptions inherent in each of these techniques and the resulting limitations.**

4. **To make the best use of IT e.g. SPSS, MS Excel etc. in solving managerial problems through better data management and analysis techniques.**
Should be able to understand and interpret results obtained from SPSS.

Reference Books:
1. Statistics for Managers by Levin Rubin
2. Business Statistics for contemproray decision making by Ken Black (ebook)
3. Business Statistics by G Beri
4. Business Statistics by J.K.Sharma

Plan:

Session No	Topics to be covered	Pedagogy	Remark
1	Introduction to Business Statistics	Case Discussions	

2	Measures of central tendency	Problem Solving and Discussions	
3	Measures of Dispersion	Problem Solving and Discussions	
4	Elementary Probability theories	Problem Solving and Discussions	
5	Probability Distributions	Case Study and experiental learning	
6	Test and Sampling Methods	Case Study	
7	Sampling Distributions	Problem Solving and Discussions	
8	Statistical estimation	Problem Solving and Discussions	
9	Testing of Hypothesis (z, t, f)	Problem Solving and Discussions	
10	Testing of Hypothesis (z, t, f)	Problem Solving and Discussions	

11	Simple Correlation & Regression	Problem Solving and Discussions	
12	Analysis of Variance	Problem Solving and Discussions	
13	Elements of Intergration and Differentiation	Problem Solving and Discussions	
14	Elements of Determinants & Matrix Algebra	Problem Solving and Discussions	
15	Test		

Evaluation:

I) Internal:

Component	Details	Marks
Class Test	10	
Presentation	10	
Assignment	10	
Participation	5	
Others	5	

II) External:
(*Sample questions*)

Two cities, Bradford and Kane are separated only by the Conewango River. There is competition between the two cities.

The local paper recently reported that the mean household income in Bradford is $38,000

with a standard deviation of $6,000 for a sample of 40 households. The same article reported the mean income in Kane is $35,000 with a standard deviation of $7,000 for a sample of 35 households.

Calculated value of test statistic = 1.98
p-value = 0.0639

At the 0.01 significance level can we conclude the mean income in Bradford is more?

Signature of Faculty   **Signature of the Co-ordinator**