



EXECUTIVE POST GRADUATE PROGRAMME IN E-GOVERNANCE
(EPGP-EG)
BATCH 2013-14

TERM I
COURSE MATERIAL OF DATA ANALYSIS
(CREDITS -2)

INSTRUCTOR

Prof. Vinay Singh Chouhan



सिद्धिमुलं प्रबन्धनम्
भा. प्र. सं. इन्दौर
IIM INDORE

STRICTLY FOR PRIVATE CIRCULATION – NOT FOR SALE

Er. Pravin S. Kolhe
A/P. JORVE, Tal. Sangamner
Dist. Ahmednagar-422605 (M.S.)
Web: www.pravinkolhe.com



विद्यया ऽ मृतमश्नुते
भा. प्र. सं. इन्दौर
IIM INDORE

Indian Institute of Management Indore

Executive Post Graduate Program in E-GOVERNANCE

2013-14

Title of the Course: Data Analysis

Credits: 2

Name of the Faculty member: Vinaysingh J. Chawan

Email: vinaysingh@iimidr.ac.in

Telephone: 545

COURSE DESCRIPTION AND OBJECTIVES:

1. Introduce statistical tools and techniques for analyzing data
2. Enhance student's ability to apply statistical techniques for managerial decisions
3. Provide exposure to software for data analysis

PEDAGOGY:

Mix of lectures, problem solving, and assignments

EVALUATION:

<u>Component</u>	<u>Weightage</u>
Class Participation	20 %
Assignments	30 %
End Term Exam	50 %
Total	100%

TEXT:

1. [S&F] Stine, R., E., and Foster, D. (2010) Statistics For Business: Decision Making And Analysis, 1st edition, Pearson Education, New Delhi. 519.5024658

REFERENCES :

1. Aczel, A., and Sounderpandian, J. (2006) Complete Business Statistics, 6th edition, Tata McGraw Hill Education, Delhi.
2. Black, K. (2009) Business Statistics For Contemporary Decision Making, 5th edition, Wiley India, New Delhi.
3. Anderson, D., R., Sweeney, D., J., and Williams, T., A. (2002) Statistics For Business and Economics, 1st edition, Cengage Learning, New Delhi.

SCHEDULE OF SESSIONS:

Module 1: Data Description and Visualization

Module Objective(s): To teach methods for data description and visualization

Sessions 1 Categorical Data

Readings: S&F Chapter-3

Problems: Growth Industries

Sessions 2 and 3 Numerical Data

Readings: S&F Chapter-4

Problems: Financial Ratios

Module 2: Association Between Variables

Module Objective(s): To teach methods for analyzing association between variables

Sessions 4 Categorical Data

Readings: S&F Chapter-5

Problems: Discrimination in Hiring, Picking a Hospital

Sessions 5 and 6 Numerical Data

Readings: S&F Chapter-6

Problems: Correlation in the Stock Market

Case: Executive Compensation

Module 3: Normal Distribution and Regression Models

Module Objective(s): To teach methods Normal distribution and regression models

Sessions 7 and 8 Normal Distribution

Readings: S&F Chapter-12

Problems: Normality and Transformation

Case: Managing Financial Risk

Sessions 9 and 10 Simple and Multiple Regression

Readings: S&F Chapter-21, 22 and 23

Problems: Diamond Rings, BMW car prices