St. Xavier’s College – Autonomous
Mumbai

F.Y.B.A

Syllabus
For 2\textsuperscript{nd} Semester Course in
Statistics
(June 2014 onwards)

Contents:
Theory Syllabus for Courses:

A.STA.2.01 – Descriptive Statistics (B).

Practical Course Syllabus for: A.STA.2. PR
F.Y.B.A
(STATISTICS)

SEMESTER 2

COURSE : A.STA.2.01

DESCRIPTIVE STATISTICS (B) [ 45 LECTURES ]

LEARNING OBJECTIVE : To orient students on techniques of data analysis.

Unit 1 : Absolute and Relative Measures of Dispersion. (15 L)

Range, Interquartile Range, Quartile Deviation, Mean Absolute Deviation, Standard Deviation (Variance) and their relative measures. Combined variance. Raw and Central moments up to fourth order and the relationship between them (without proof). Measures of Skewness and Kurtosis. Box-Whisker Plot.

Unit 2 : Analysis of Bivariate Data. (15 L)


Unit 3 : TIME SERIES (15 L)

Estimation of seasonal component by i) Method of simple averages ii) Ratio to moving average method iii) Ratio to trend method.

List of Practicals:
1 Measures of Dispersion.
2 Skewness and Kurtosis.
3 Correlation Analysis
4 Regression Analysis.
5 Curve fitting by the Method of Least Squares.
6 Time-Series

REFERENCES:
5. Welling, Khandeparkar, Pawar, Naralkar: Descriptive Statistics: Manan Prakashan
11. www.actuaries.org.uk
12. www.actuariesindia.org
13. www.soa.org

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