

**St. Xavier's College (Autonomous), Ahmedabad**  
**Syllabus of Semester – II of the following departments under Faculty of Arts**  
**based on Under Graduate Curriculum Framework - 2023 to be implemented**  
**from the Academic Year 2023-24**

**FACULTY OF ARTS**

**DEPARTMENT OF ECONOMICS**

Course	Title	Content	Hours/week	Credit
<b>Minor-2</b>	Introductory Statistics for Economics	U-1: Introduction to Statistics U-2: Data Collection and Presentation U-3: Measures of Central Tendency U-4: Measures of Dispersion	4hrs	4

**BA Economics Hons. (SF)**

**Minor: Introductory Statistics for Economics**

**CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE**

Course Title & Code	Credit Distribution of The Course			Eligibility Criteria	Prerequisite(s) of the Course (if any)
	Lecture	Tutorial	Practical / Practice		
Introductory Statistics for Economics	2	0	0	10 + 2 from a recognized board in any stream	Basic Reasoning, Observation & Analytical Skills

**ECH-2101: Introductory Statistics for Economics (4 Credits)**

Course Objectives-

- This course introduces students to the fundamental principles and techniques of statistics as applied to economics.
- Students will learn how to collect, organize, analyse, and interpret data relevant to economic phenomena.

- Emphasis will be placed on understanding statistical concepts and their practical applications in economic analysis.
- Create a foundation for further courses in Econometrics

### **Unit 1: Introduction to Statistics**

- Introduction to statistics and its importance in economics
- Types of data: qualitative vs. quantitative
- Levels of measurement: nominal, ordinal, interval, and ratio
- Descriptive vs. inferential statistics

### **Unit 2: Data Collection and Presentation**

- Sources of economic data
- Methods of data collection: primary vs. secondary data
- Sampling techniques: random sampling, stratified sampling, cluster sampling
- Data presentation: tabular presentation, frequency distribution, graphical representation (histograms, frequency polygons, etc.)

### **Unit 3: Measures of Central Tendency**

- Mean, median, and mode
- Properties and applications of each measure
- Measures of central tendency for grouped data

### **Unit 4: Measures of Dispersion**

- Range, variance, and standard deviation
- Coefficient of variation
- Interquartile range
- Applications of measures of dispersion in economics

### **Reference Books**

- 1) Newbold, P., Carlson, W. & Thorne, B. (2013) Statistics for Business and Economics
- 2) Anderson, Sweeney et. al. (2017) Statistics for Business and Economics
- 3) Sharma, J.K., (2007), Business Statistics
- 4) Gupta, S.C., & Gupta, I, (2013) Business Statistics