

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

**FACULTY OF SCIENCE**

**DEPARTMENT OF STATISTICS**

Course	Title	Content	Hours/Week	Credit
SEC	Advance spreadsheet tools	U-1: Getting the Most from Your Data U-2: Macros, Visual Basic and Excel Programming	4 hrs	2

**SKILL ENHANCEMENT COURSE**

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

Course Title & Code	Credit Distribution of The Course (Total - 02 Credit)			Prerequisite(s) of the Course (if any)
	Lecture	Practical	Experiential Lab	
Advance Spreadsheet tools	0	4	0	Basic Mathematics, Observation & Analytical Skills

**Learning Objectives:**

- CO-1 Compute the skill of formation of Pivot tables, Pivot chart.
- CO-2 Compute data analysis by doing data analysis tools and use interpretation to make decisions.
- CO-3 By studying this course, students will be able to make macros, data analysis and visual basic tasks using spreadsheets

**Learning Outcomes:** After completion of this course, the students will be able to

- (1) To use macros, pivot table and visual basic task.
- (2) To interpret results using data analysis tool.

**Unit-1 Getting the Most from Your Data**

**(30Hrs)**

- Outlining and Grouping Data
- Exploring Scenarios
- Using Data Analysis Tools
- Formatting PivotChart
- Advanced PivotChart Tasks

**Unit: 2 Macros, Visual Basic and Excel Programming**

**(30Hrs)**

- Creating a Basic Macro
- Relative Reference Macros
- Visual Basic and Macros
- Advanced Visual Basic Tasks

**References:**

1. Graduate Statistics in Excel by Mark Harmon (2011).
2. Statistical Analysis with Excel by Excel for professionals (2002).
3. Step by step Microsoft Excel 2013 by Curtis D. Frye.

**Advanced Visual Basic Tasks:**

1. The course is taught using computers to solve problems through examples and exercises.
2. Students are encouraged to use resources available on open sources.