



Villa Marie Degree College for Women
6-3-1089, Raj Bhavan Road, Somajiguda, Hyderabad-500082
Affiliated to Osmania University, Management Program Approved by AICTE
Recognised by UGC u/s 2(f), an ISO 9001:2015 Certified Institution
Accredited by NAAC with B++ Grade

Department of Sciences
Academic Year 2025-26

Course Objective

- To provide a strong foundation in mathematics, statistics, computer science, and nutrition, enabling students to develop analytical, computational, and problem-solving skills.

Course Outcomes

- Students will be able to apply fundamental concepts of mathematics, statistics, computer science, and nutrition to analyze data, solve problems, and make informed decisions in academic and real-world contexts.

Syllabus

Unit	Topics	No. of Classes
1	Mathematics Fundamentals - Arithmetic operations - Fractions, decimals, and percentages. Algebra Review - Solving linear equations and inequalities - Polynomials and factoring. Geometry and Trigonometry - Properties of geometric shapes - Area and perimeter calculations.	04
2	Statistics Data collection methods, types of data, grouped and ungrouped frequency distributions, data analysis and interpretation, and data visualization techniques—interpretation of histograms and frequency polygons. Problem-Solving and Applications, Critical thinking skills and problem-solving strategies.	04
3	Fundamentals of Information Technology Know your computer—turn on sockets, how to plug in, desktop and navigation, Windows Explorer, and creating files and folders. Computer peripherals—Hardware, software, shortcut keys, control panel, difference between PC, laptop, mobile navigation, and Internet: creating email and social accounts, downloading, uploading, and net browsing.	04
4	Nutrition & Dietetics Basic Nutrition—understanding micro- and Macronutrients Food Science - Exploring composition of food and human physiology - Learning about the digestive system and biochemistry, understanding the chemical processes.	04


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