



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

Program B.Sc. (M.S.DS) / B.Sc. (M.S.AI & ML)

Bridge Course- Fundamentals in Mathematics & Statistics

Academic Year 2025 - 26

Course Objective

- To provide a strong foundation of basic concepts of Mathematics and Statistics.

Course Outcomes

- Students understand the fundamental concepts of mathematics and statistics and approach mathematical and statistical problems with confidence.

Syllabus

Unit	Topics	No. of Classes
1	Mathematical Fundamentals—Subtopics: - Arithmetic operations - Fractions, decimals, and percentages	02
2	Algebra Review - Subtopics: - Solving linear equations and inequalities - Polynomials and factoring	02
3	Geometry and Trigonometry - Subtopics: - Properties of geometric shapes - Area and perimeter calculations	02
4	Statistical Foundations - Subtopics: - Data collection methods, types of data, grouped and ungrouped frequency distributions.	02
5	Data Analysis and Interpretation- Subtopics: - Data visualization techniques - Interpretation of histograms and frequency polygons.	02
6	Problem-Solving and Applications- Subtopics: Critical thinking skills, problem-solving strategies. Review and Integration - Subtopics: - Recap of key concepts from the week - Simple problem-solving exercises	02


HOD - Department of Sciences
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Program B.Sc. (Clinical Nutrition & Dietetics, Zoology & Chemistry)

Bridge Course- Clinical nutrition and Dietetics

Academic Year 2025 - 26

Course Objective

- To provide a strong foundation of basic concepts of Nutrition.

Course Outcomes

- Students understand the fundamental concepts of Nutrition and meal management.

Syllabus

Unit	Topics	No. of Classes
1	Basic Nutrition - understanding micro and macro nutrients	02
2	Food Science - Exploring composition of Food.	02
3	Human Physiology - Learning about digestive system	02
4	Biochemistry - Understanding the chemical processes	02


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Program B.Sc. (M.S.DS) / B.Sc. (M.S.AI & ML) / B.Com (Computer Applications)

Bridge Course- Fundamentals of Information Technology

Academic Year 2025-26

Course Objective

To acquire basic knowledge about computers.

Course Outcome

Familiar with computer peripherals and accessing the internet.

Syllabus

Unit	Topics	No. of Classes
1	Know your Computer—turn on, sockets—how to plug in, Desktop and Navigation, Windows Explorer, Creating Files, Folders	02
2	Computer peripheral's - Hardware, Software, Shortcut keys, Control Panel, Difference between PC, Laptop, Mobile Navigation,	02
3	Internet: Creating email and social accounts, downloading, uploading, and net browsing.	02


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