

# Academic Calendar Report

## Dr. Nosheen Zardari (Lecturer)

<b>Course:</b>	Biochemistry-I	<b>Program:</b>	DPT
<b>Batch:</b>	2024-25	<b>Semester/Year:</b>	2nd Year - 3rd Semester

S.No.	Date	Week	Teacher	Description
1	27/04/2026	Week 1	Dr. Nosheen Zardari	CELL • Introduction to Biochemistry • Cell: (Biochemical Aspects)
2	27/04/2026	Week 1	Dr. Nosheen Zardari	Introduction to biochemistry, cell biochemistry
3	28/04/2026	Week 1	Dr. Nosheen Zardari	• Cell Membrane Structure
4	04/05/2026	Week 2	Dr. Nosheen Zardari	• Membrane Proteins • Receptors & Signal Molecules
5	05/05/2026	Week 2	Dr. Nosheen Zardari	BODY FLUIDS • Structure and properties of Water • Weak Acids & Bases
6	11/05/2026	Week 3	Dr. Nosheen Zardari	• Concept of pH & pK • Buffers, their mechanism of action • Body buffers
7	12/05/2026	Week 3	Dr. Nosheen Zardari	BIOMOLECULES AMINO ACIDS, PEPTIDES & PROTEINS • Amino acids: Classification
8	18/05/2026	Week 4	Dr. Nosheen Zardari	• Acid-Base Properties • Functions & Significance
9	19/05/2026	Week 4	Dr. Nosheen Zardari	• Protein Structure, Primary, Secondary & Super secondary. &, Structural Motifs • Tertiary & Quaternary Structures of Proteins
10	25/05/2026	Week 5	Dr. Nosheen Zardari	• Protein Domains • Classification of Proteins • Fibrous proteins (collagens and elastins ) & Globular proteins
11	25/05/2026	Week 5	Dr. Nosheen Zardari	Biochemistry of PROTEINS
12	26/05/2026	Week 5	Dr. Nosheen Zardari	ENZYMES • Introduction
13	20/07/2026	Week 6	Dr. Nosheen Zardari	• Classification & Properties of Enzymes • Coenzymes
14	21/07/2026	Week 6	Dr. Nosheen Zardari	• Isozymes & Proenzymes • Regulation & Inhibition of Enzyme activity & enzymes inhibitors • Clinical Diagnostic Enzymology
15	27/07/2026	Week 7	Dr. Nosheen Zardari	CARBOHYDRATES • Definition • Classification

S.No.	Date	Week	Teacher	Description
16	28/07/2026	Week 7	Dr. Nosheen Zardari	• Biochemical Functions & Significance of Carbohydrates • Structure & Properties of Monosaccharides & Oligosaccharides
17	03/08/2026	Week 8	Dr. Nosheen Zardari	• Structure & Properties of Polysaccharides • Bacterial cell Wall • Heteropolysaccharides • GAGS
18	04/08/2026	Week 8	Dr. Nosheen Zardari	• Structure & Properties of Polysaccharides • Bacterial cell Wall • Heteropolysaccharides • GAGS
19	10/08/2026	Week 9	Dr. Nosheen Zardari	• Biochemical Functions & Significance of Carbohydrates • Structure & Properties of Monosaccharides & Oligosaccharides • Structure & Properties of Polysaccharides
20	11/08/2026	Week 9	Dr. Nosheen Zardari	NUCLEIC ACIDS • Structure, Functions & Biochemical Role of Nucleotides • Structure & Functions of DNA • Structure & Functions of RNA.
21	17/08/2026	Week 10	Dr. Nosheen Zardari	NUTRITIONAL BIOCHEMISTRY MINERALS & TRACE ELEMENTS • Sources • RDA
22	18/08/2026	Week 10	Dr. Nosheen Zardari	• Biochemical Functions & Clinical Significance of Calcium & Phosphorus • Sources • RDA • Biochemical Functions & Clinical Significance of Sodium Potassium & Chloride • Metabolism of Iron, Cu, Zn, Mg, Mn, Se, I, F.
23	24/08/2026	Week 11	Dr. Nosheen Zardari	VITAMINS • Sources • RDA • Biochemical Functions & Clinical Significance of Fat Soluble Vitamins
24	25/08/2026	Week 11	Dr. Nosheen Zardari	• Sources • RDA • Biochemical Functions & Clinical Significance of Water Soluble • Vitamins
25	31/08/2026	Week 12	Dr. Nosheen Zardari	NUTRITION • Dietary Importance of Carbohydrates, Lipids & Proteins
26	01/09/2026	Week 12	Dr. Nosheen Zardari	• Balanced Diet.
27	07/09/2026	Week 13	Dr. Nosheen Zardari	revision

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