

Academic Calendar Report

Rubina Parveen Siyal (Assistant Professor)

Course:	BIOCHEMISTRY	Program:	BSN (Generic)
Batch:	2025-26	Semester/Year:	1st Year - 1st Semester

S.No.	Date	Week	Teacher	Description
1	23/02/2026	Week 1	Rubina Parveen Siyal	OVERVIEW AND INTRODUCTION
2	24/02/2026	Week 1	Rubina Parveen Siyal	Unit – I: Bio Molecular Foundations of Clinically Oriented Biochemistry INTRODUCTION
3	25/02/2026	Week 1	Rubina Parveen Siyal	Unit – I: Bio Molecular Foundations of Clinically Oriented Biochemistry Bio Molecular Foundations of the Human Body
4	26/02/2026	Week 1	Rubina Parveen Siyal	Unit – I: Bio Molecular Foundations of Clinically Oriented Biochemistry Cell Biochemistry & pH Regulation
5	02/03/2026	Week 2	Rubina Parveen Siyal	Unit – I: Bio Molecular Foundations of Clinically Oriented Biochemistry Water regulation
6	03/03/2026	Week 2	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Carbohydrate Biochemistry
7	04/03/2026	Week 2	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Fundamentals of Protein Biochemistry
8	05/03/2026	Week 2	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Fundamentals of Lipid Biochemistry
9	09/03/2026	Week 3	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Fundamentals of Lipid Biochemistry
10	10/03/2026	Week 3	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Clinical application of enzymes
11	11/03/2026	Week 3	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Clinical application of enzymes
12	12/03/2026	Week 3	Rubina Parveen Siyal	Unit – II: Macromolecules and Their Role in Body Integrity Fundamentals of Hormone Biochemistry
13	16/03/2026	Week 4	Rubina Parveen Siyal	Unit – III: Exploring Metabolic Pathways Basics of metabolism
14	17/03/2026	Week 4	Rubina Parveen Siyal	Define metabolism, anabolism, and catabolism.
15	18/03/2026	Week 4	Rubina Parveen Siyal	Define ATP and discuss the relationship with catabolism and anabolism
16	19/03/2026	Week 4	Rubina Parveen Siyal	Discuss the overview of gluconeogenesis, glycogenesis, glycogenolysis, transamination, deamination and ketosis.

S.No.	Date	Week	Teacher	Description
17	26/03/2026	Week 5	Rubina Parveen Siyal	Unit – III: Exploring Metabolic Pathways Metabolism of Carbohydrate
18	27/03/2026	Week 5	Rubina Parveen Siyal	Discuss the role of glycogenesis and glycogenolysis.
19	28/03/2026	Week 5	Rubina Parveen Siyal	Explain the main steps, key enzymes, output of cycle and clinical significance of main carbohydrate metabolic pathways.
20	30/03/2026	Week 6	Rubina Parveen Siyal	Unit – III: Exploring Metabolic Pathways Metabolism of fat
21	31/03/2026	Week 6	Rubina Parveen Siyal	Describe the mechanism of fatty acid oxidation.
22	01/04/2026	Week 6	Rubina Parveen Siyal	Discuss the amount of energy produce during the oxidation of fats.
23	02/04/2026	Week 6	Rubina Parveen Siyal	Explain the significance of the role of ketone bodies.
24	06/04/2026	Week 7	Rubina Parveen Siyal	Unit – III: Exploring Metabolic Pathways Metabolism of Proteins
25	07/04/2026	Week 7	Rubina Parveen Siyal	Discuss the transamination, deamination and decarboxylation
26	08/04/2026	Week 7	Rubina Parveen Siyal	Discuss the formation of urea and ammonia disposal
27	13/04/2026	Week 8	Rubina Parveen Siyal	Unit – IV: Clinical Skills Sample Collection protocols
28	14/04/2026	Week 8	Rubina Parveen Siyal	Identify and implement safety precautions during sample collection.
29	15/04/2026	Week 8	Rubina Parveen Siyal	Demonstrate proper techniques for collecting various samples (blood, urine, etc.) according to standard protocols.
30	16/04/2026	Week 8	Rubina Parveen Siyal	Demonstrate proper techniques for collecting various samples (blood, urine, etc.) according to standard protocols.
31	20/04/2026	Week 9	Rubina Parveen Siyal	Unit – IV: Clinical Skills Diabetic Profile
32	21/04/2026	Week 9	Rubina Parveen Siyal	Interpret following test results and understand their implications in diabetes management. ? Fasting Blood Glucose (FBG) ? Postprandial Blood Glucose (PPBG) ? Hemoglobin A1c (HbA1c) ? Oral Glucose Tolerance Test (OGTT)
33	22/04/2026	Week 9	Rubina Parveen Siyal	Interpret following test results and understand their implications in diabetes management. ? Fasting Blood Glucose (FBG) ? Postprandial Blood Glucose (PPBG) ? Hemoglobin A1c (HbA1c) ? Oral Glucose Tolerance Test (OGTT)
34	23/04/2026	Week 9	Rubina Parveen Siyal	Interpret following test results and understand their implications in diabetes management. ? Fasting Blood Glucose (FBG) ? Postprandial Blood Glucose (PPBG) ? Hemoglobin A1c (HbA1c) ? Oral Glucose Tolerance Test (OGTT)
35	27/04/2026	Week 10	Rubina Parveen Siyal	Unit – IV: Clinical Skills Urine Dipstick Test

S.No.	Date	Week	Teacher	Description
36	28/04/2026	Week 10	Rubina Parveen Siyal	Perform the Dipstick test and interpret its results.
37	29/04/2026	Week 10	Rubina Parveen Siyal	Perform the Dipstick test and interpret its results.
38	30/04/2026	Week 10	Rubina Parveen Siyal	Unit – IV: Clinical Skills Urinalysis Urine DR
39	04/05/2026	Week 11	Rubina Parveen Siyal	Unit – V: Biochemical Investigations
40	05/05/2026	Week 11	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Liver Function Test (LFT)
41	06/05/2026	Week 11	Rubina Parveen Siyal	Analyze liver enzyme levels (ALT, AST, ALP, bilirubin) to identify liver function and damage.
42	07/05/2026	Week 11	Rubina Parveen Siyal	Correlate abnormal LFT results with liver diseases (e.g., hepatitis, cirrhosis).
43	11/05/2026	Week 12	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Lipid Profile
44	12/05/2026	Week 12	Rubina Parveen Siyal	Understand the significance of lipid levels (total cholesterol, LDL, HDL, triglycerides) in assessing cardiovascular risk.
45	13/05/2026	Week 12	Rubina Parveen Siyal	Understand the significance of lipid levels (total cholesterol, LDL, HDL, triglycerides) in assessing cardiovascular risk.
46	14/05/2026	Week 12	Rubina Parveen Siyal	Interpret values in the context of hyperlipidemia and its associated diseases.
47	18/05/2026	Week 13	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Renal Function Test
48	19/05/2026	Week 13	Rubina Parveen Siyal	Evaluate renal function through serum creatinine, BUN, and electrolyte levels.
49	20/05/2026	Week 13	Rubina Parveen Siyal	Identify stages of chronic kidney disease based on laboratory findings.
50	21/05/2026	Week 13	Rubina Parveen Siyal	Identify stages of chronic kidney disease based on laboratory findings.
51	25/05/2026	Week 14	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Cardiac Bio Markers
52	26/05/2026	Week 14	Rubina Parveen Siyal	Interpret cardiac markers (troponins, CK-MB, BNP) in the context of acute coronary syndrome and heart failure.
53	27/05/2026	Week 14	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Thyroid Profile
54	28/05/2026	Week 14	Rubina Parveen Siyal	Interpret thyroid function tests (TSH, Free T3, and Free T4) and their role in metabolic regulation.
55	20/07/2026	Week 15	Rubina Parveen Siyal	Unit – V: Biochemical Investigations Arterial Blood Gases analysis (ABGs)