

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 – 24 Batch

THEORY

Month- September

S.N.	DATE	TIME	TOPIC	FACULTY
1	13.09.2023	2PM to 3PM	Molecular and functional organization of cell (BI 1.1.1 & 1.1.2)	Dr. Rakesh Manglani
2	15.09.2023	9AM to 10AM	Classification of carbohydrates and examples (BI 3.1)	Dr. K.S.C.Bose
3	16.09.2023	9AM to 10AM	Classification of lipids (BI 4.1)	Dr. K.K. Pandey
4	20.09.2023	2PM to 3PM	Sub-cellular components (BI 1.1.3)	Dr. Rakesh Manglani
5	22.09.2023	9AM to 10AM	Classification of carbohydrates and examples (BI 3.1)	Dr. K.S.C.Bose
6	23.09.2023	9AM to 10AM	Compound lipids (BI 4.1)	Dr. K.K. Pandey
7	27.09.2023	2PM to 3PM	Transport mechanisms across the cell membrane (BI1.1.4)	Dr. Rakesh Manglani
8	29.09.2023	9AM to 10AM	Digestion and assimilation of carbohydrates (BI 3.2 & 3.3)	Dr. K.S.C.Bose
9	30.09.2023	9AM to 10AM	Digestion and absorption of dietary lipids and their metabolism (BI 4.2)	Dr. K.K. Pandey

PRACTICAL/SGD

S.N.	DATE	TIME	TOPIC	FACULTY
1	11.09.2023	3PM to 5 PM	Laboratory safety practices (BI 11.1)	All faculty
2	12.09.2023	11AM to 1PM	Laboratory safety practices (BI 11.1)	All faculty
3	13.09.2023	3PM to 5 PM	Commonly used laboratory apparatus and equipments (BI 11.1)	All faculty
4	14.09.2023	11AM to 1PM	Commonly used laboratory apparatus and equipments (BI 11.1)	All faculty
5	18.09.2023	3PM to 5 PM	Laboratory glass wares and uses (BI 11.1)	All faculty
6	19.09.2023	11AM to 1PM	Laboratory glass wares and uses (BI 11.1)	All faculty
7	20.09.2023	3PM to 5 PM	Waste Disposal (BI 11.1)	All faculty
8	21.09.2023	11AM to 1PM	Waste Disposal (BI 11.1)	All faculty
9	25.09.2023	3PM to 5 PM	Pipetting technique and calibration measurement	All faculty
10	26.09.2023	11AM to 1PM	Pipetting technique and calibration measurement	All faculty
11	27.09.2023	3PM to 5 PM	Demonstration of test on carbohydrate (BI 3.1)	All faculty

Professor & Head
Dept. of Biochemistry
BMGMC Shahdol

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 – 24 Batch

THEORY

Month- October

S.N.	DATE	TIME	TOPIC	FACULTY
1	04.10.2023	2PM to 3PM	BI 5.2.2;classification and functions of amino acids.	Dr. Rakesh Manglani
2	06.10.2023	9AM to 10AM	BI 3.4.1; Glycolysis	Dr. K.S.C.Bose
3	07.10.2023	9AM to 10AM	BI 5.1; Structural organization of proteins	Dr. Rakesh Manglani
4	11.10.2023	2PM to 3PM	BI 5.2.1;classification and functions of proteins.	Dr. Rakesh Manglani
5	13.10.2023	9AM to 10AM	BI 3.4.2; Gluconeogenesis	Dr. K.S.C.Bose
6	14.10.2023	9AM to 10AM	BI 4.3; Regulation of lipoprotein metabolism and disorders	Dr. K.K. Pandey
7	18.10.2023	2PM to 3PM	BI 3.4.3; Glycogen metabolism	Dr. K.S.C.Bose
8	20.10.2023	9AM to 10AM	BI 3.4.4; HMP Shunt	Dr. K.S.C.Bose
9	21.10.2023	9AM to 10AM	BI 4.5.1; Fatty acid synthesis	Dr. K.K. Pandey
10	25.10.2023	2PM to 3PM	BI 4.5.2; Beta oxidation of fatty acids and clinical significance.	Dr. K.K. Pandey
11	27.10.2023	9AM to 10AM	BI 5.3;digestion and absorption of dietary proteins.	Dr. Rakesh Manglani

PRACTICAL/SGD

S.N.	DATE	TIME	TOPIC	FACULTY
1	03.10.2023	11AM to 1PM	DEMONSTRATION OF TEST ON CARBOHYDRATE (BI 3.1)	All faculty
2	04.10.2023	3PM to 5 PM	DEMONSTRATION OF OSAZONES UNDER MICROSCOPE (BI 3.1)	All faculty
3	05.10.2023	11AM to 1PM	DEMONSTRATION OF OSAZONES UNDER MICROSCOPE (BI 3.1)	All faculty
4	09.10.2023	3PM to 5 PM	CHEMICAL COMPONENTS OF NORMAL URINE (BI 11.3)	All faculty
5	10.10.2023	11AM to 1PM	CHEMICAL COMPONENTS OF NORMAL URINE (BI 11.3)	All faculty
6	11.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE SO ₄ & UREA (BI 11.4)	All faculty
7	12.10.2023	11AM to 1PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE SO ₄ & UREA (BI 11.4)	All faculty
8	16.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE CHLORIDE AND URIC ACID (BI 11.4)	All faculty
9	17.10.2023	11AM to 1PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE CHLORIDE AND URIC ACID (BI 11.4)	All faculty
10	18.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE PHOSPHATE AND CREATININE (BI 11.4)	All faculty
11	19.10.2023	11AM to 1PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE PHOSPHATE AND CREATININE (BI 11.4)	All faculty
12	23.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE CALCIUM AND AMMONIA (BI 11.4)	All faculty
13	25.10.2023	11AM to 1PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE CALCIUM AND AMMONIA (BI 11.4)	All faculty
14	26.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE INORGANIC CONSTITUENTS OF URINE (BI 11.4)	All faculty
15	30.10.2023	3PM to 5 PM	URINE ANALYSIS TO ESTIMATE AND DETERMINE INORGANIC CONSTITUENTS OF URINE (BI 11.4)	All faculty
16	31.10.2023	11AM to 1PM	Record check	All faculty

Professor & Head
 Dept. of Biochemistry
 BMGMC Shahdol

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- November

S. N.	DATE	TIME	TOPIC	FACULTY
1	01.11.2023	2PM to 3PM	BI5.4.1, Describe common disorders associated with protein metabolism.	Dr. Rakesh Manglani
2	03.11.2023	9AM to 10AM	BI 3.4.5 Uronic acid pathway and its clinical significance	Dr. K.S.C.Bose
3	04.11.2023	9AM to 10AM	BI4.5.3; Biosynthesis of cholesterol with its clinical significance	Dr. K.K. Pandey
4	08.11.2023	2PM to 3PM	BI5.4.2, Describe common disorders associated with protein metabolism.	Dr. Rakesh Manglani
5	17.11.2023	9AM to 10AM	BI 4.6.1; Describe the therapeutic uses of prostaglandins and inhibitors of eicosanoid synthesis.	Dr. K.K. Pandey
6	18.11.2023	9AM to 10AM	BI3.4.6, Metabolism of fructose and galactose with its clinical significance	Dr. K.S.C.Bose
7	22.11.2023	2PM to 3PM	BI5.4.3, Describe common disorders associated with protein metabolism.	Dr. Rakesh Manglani
8	24.11.2023	9AM to 10AM	BI3.6&3.7, TCA Cycle	Dr. K.S.C.Bose
9	25.11.2023	9AM to 10AM	BI 4.6.2 Ketone body and it's significance.	Dr. K.K. Pandey
10	29.11.2023	2PM to 3PM	BI 3.5 & 3.9; discuss the mechanism and significance of blood glucose regulation in health and disease.	Dr. K.S.C.Bose

PRACTICAL/SGD

S. N.	DATE	TIME	TOPIC	DEMONSTRATION BY
1	01.11.2023	3PM to 5 PM	(BI 11.4)Urine analysis to estimate and determine Organic constituents. Small group discussion (SGD)	Dr. Harshwardhan
2	02.11.2023	11AM to 1PM	(BI 11.4)Urine analysis to estimate and determine Organic constituents. Small group discussion (SGD)	Dr. Harshwardhan
3	09.11.2023	11AM to 1PM	Record check	All faculty
4	20.11.2023	3PM to 5 PM	(BI 11.4)Urine analysis to estimate and determine Inorganic constituents. Small group discussion (SGD)	Dr. Nidhi
5	21.11.2023	11AM to 1PM	(BI 11.4)Urine analysis to estimate and determine Inorganic constituents. Small group discussion (SGD)	Dr. Nidhi
6	22.11.2023	3PM to 5 PM	(BI 11.4)Demonstration of abnormal constituents of urine Small group discussion (SGD)	Dr. Nidhi
7	23.11.2023	11AM to 1PM	(BI 11.4)Demonstration of abnormal constituents of urine Small group discussion (SGD)	Dr. Nidhi
8	28.11.2023	11AM to 1PM	(BI 11.4)Perform urine analysis to estimate and determine abnormal constituents (sugar, protein) Small group discussion (SGD)	Dr. Harshwardhan
9	29.11.2023	3PM to 5 PM	(BI 11.4)Perform urine analysis to estimate and determine abnormal constituents (sugar, protein) Small group discussion (SGD)	Dr. Harshwardhan
10	30.11.2023	11AM to 1PM	Record check	All faculty

For SGD:-

Roll No. 01-17 & 51-67 Dr. K.S.C. Bose

Roll No. 18-34 & 68-84 Dr. K.K. Pandey

Roll No. 35-50 & 85-100 Dr. Rakesh Manglani

Professor & Head

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- December

S. N.	DATE	TIME	TOPIC	FACULTY
1	01.12.2023	9AM to 10AM	BI4.6.2 Ketone body and its significance	Dr. K.K. Pandey
2	02.12.2023	9AM to 10AM	BI5.4.4 Describe common disorder associated with Protein metabolism . (Acidic amino acid)	Dr. Rakesh Manglani
3	06.12.2023	2PM to 3PM	BI3.6 TCA Cycle	Dr. K.S.C.Bose
4	08.12.2023	9AM to 10AM	BI5.4.4 Describe common disorder associated with Protein metabolism . (Basic amino acid)	Dr. Rakesh Manglani
5	09.12.2023	9AM to 10AM	BI3.7, TCA Cycle	Dr. K.S.C.Bose
6	13.12.2023	2PM to 3PM	BI5.5.1 UREA CYCLE AND ITS DISORDERS	Dr. Rakesh Manglani
7	15.12.2023	9AM to 10AM	BI6.6.1 Describe the biochemical processes involved in generation of energy in cells.	Dr. K.S.C.Bose
8	16.12.2023	9AM to 10AM	BI5.5.2 UREA CYCLE AND ITS DISORDERS	Dr. Rakesh Manglani
9	20.12.2023	2PM to 3PM	BI4.7 Interpret laboratory result of analytes associated with metabolism of lipid.	Dr. K.K. Pandey
10	22.12.2023	9AM to 10AM	BI6.1 Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting states .	Dr. K.K. Pandey
11	23.12.2023	9AM to 10AM	BI6.6.2 Describe the Electron transport chain and its inhibitors.	Dr. K.S.C.Bose
12	27.12.2023	2PM to 3PM	BI6.2 Describe and discuss the metabolic processes in which nucleotides are involved.	Dr. K.K. Pandey
13	29.12.2023	9AM to 10AM	BI6.6.3 Describe the oxidative phosphorylation and uncouplers.	Dr. K.S.C.Bose
14	30.12.2023	9AM to 10AM	BI6.3 Describe the common disorders associated with nucleotide metabolism.	Dr. K.K. Pandey

PRACTICAL/SGD

S. N.	DATE	TIME	TOPIC	DEMONSTRATION BY
1	04.12.2023	3PM to 5 PM	BI11.4 Perform urine analysis to estimate and determine abnormal constituents (Blood , Bile Ketone).	All faculty
2	05.12.2023	11AM to 1PM	BI11.4 Perform urine analysis to estimate and determine abnormal constituents (Blood , Bile Ketone).	All faculty
3	06.12.2023	3PM to 5 PM	BI11.4 Perform urine analysis to estimate and determine abnormal constituents & Record check	All faculty
4	07.12.2023	11AM to 1PM	BI11.4 Perform urine analysis to estimate and determine abnormal constituents & Record check	All faculty
5	11.12.2023	3PM to 5 PM	BI11.21 Demonstrate & perform estimate of glucose and GTT.	All faculty
6	12.12.2023	11AM to 1PM	BI11.21 Demonstrate & perform estimate of glucose and GTT.	All faculty
7	13.12.2023	3PM to 5 PM	BI11.21 Demonstrate & perform estimate of Urea.	All faculty
8	14.12.2023	11AM to 1PM	BI11.21 Demonstrate & perform estimate of Urea.	All faculty
9	18.12.2023	3PM to 5 PM	BI11.21 Demonstrate & perform estimate of Creatinine.	All faculty
10	19.12.2023	11AM to 1PM	BI11.21 Demonstrate & perform estimate of Creatinine.	All faculty
11	20.12.2023	3PM to 5 PM	BI11.8 Demonstrate & perform estimation of Protein , Albumin & A : G Ratio.	All faculty
12	21.12.2023	11AM to 1PM	BI11.8 Demonstrate & perform estimation of Protein , Albumin & A : G Ratio.	All faculty
13	26.12.2023	11AM to 1PM	Renal Function test.	Dr. Rakesh Manglani
14	27.12.2023	3PM to 5 PM	Renal Function test.	Dr. Rakesh Manglani
15	28.12.2023	11AM to 1PM	Record check	All faculty

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- January

S. N.	DATE	TIME	TOPIC	FACULTY
1	06.01.2024	9AM to 10AM	BI6.3 Describe the common disorder associate with nucleotides metabolism.	Dr. K.K. Pandey
2	12.01.2024	9AM to 10AM	BI6.11.1 Describe the function of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism.	Dr. K.S.C.Bose
3	13.01.2024	9AM to 10AM	BI6.4 Discuss laboratory results of analytes associated with gout & lesch nyhan syndrome	Dr. K.K. Pandey
4	17.01.2024	2PM to 3PM	BI 2.1.1,explain fundamental concepts of enzyme, isoenzyme, alloenzyme, coenzyme and cofactors. Enumerate the main classes of IUBMB nomenclature.	Dr. Rakesh Manglani
5	19.01.2024	9AM to 10AM	BI6.7.1 Describe the processes involved the maintenance of normal pH water & electrolytes balance of body fluids and the derangements associated with these .	Dr. K.K. Pandey
6	20.01.2024	9AM to 10AM	BI6.11.2 Describe the function of haem in the body and describe the processes involved in its metabolism and describe porphyrin metabolism.	Dr. K.S.C.Bose
7	24.01.2024	2PM to 3PM	BI2.1.2 Factor affecting enzyme action	Dr. Rakesh Manglani
8	27.01.2024	9AM to 10AM	BI6.12.1 Describe the major types of hemoglobin and its derivatives found in the body and their physiological / pathological relevance.	Dr. K.S.C.Bose
9	31.01.2024	2PM to 3PM	BI 2.3, Describe and explain the basic principles of enzyme activity.	Dr. Rakesh Manglani

PRACTICAL/SGD

S. N.	DATE	TIME	TOPIC	DEMO. BY
1	01.01.2024	3PM to 5 PM	BI11.6 Colorimeter, Spectrophotometer	All faculty
2	02.01.2024	11AM to 1PM	BI11.6 Colorimeter, Spectrophotometer	All faculty
3	11.01.2024	11AM to 1PM	BI11.8 Demonstrate & perform estimation of Protein , Albumin & A : G Ratio.	All faculty
4	15.01.2024	3PM to 5 PM	Revise estimation of Urea, Creatinine, Protein , Albumin & A : G Ratio.	All faculty
5	16.01.2024	11AM to 1PM	Revise estimation of Urea, Creatinine, Protein , Albumin & A : G Ratio.	All faculty
6	17.01.2024	3PM to 5 PM	BI11.12 Demonstrate and perform estimation of total bilirubin and direct bilirubin	All faculty
7	18.01.2024	11AM to 1PM	BI11.12 Demonstrate and perform estimation of total bilirubin and direct bilirubin	All faculty
8	22.01.2024	3PM to 5 PM	BI11.13 Demonstrate and perform estimation of SGOT & SGPT	All faculty
9	23.01.2024	11AM to 1PM	BI11.13 Demonstrate and perform estimation of SGOT & SGPT	All faculty
10	24.01.2024	3PM to 5 PM	BI11.14 Demonstrate and perform estimation of ALP	All faculty
11	25.01.2024	11AM to 1PM	BI11.14 Demonstrate and perform estimation of ALP	All faculty
12	29.01.2024	3PM to 5 PM	BI11.11 Demonstrate and perform estimation of Calcium & Phosphorus	All faculty
13	30.01.2024	11AM to 1PM	BI11.11 Demonstrate and perform estimation of Calcium & Phosphorus	All faculty
14	31.01.2024	3PM to 5 PM	Record check	All faculty

For SGD:-

Roll No. 01-17 & 51-67 Dr. K.S.C. Bose

Roll No. 18-34 & 68-84 Dr. K.K. Pandey

Roll No. 35-50 & 85-100 Dr. Rakesh Manglani

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- February

S. N.	DATE	TIME	TOPIC	FACULTY
1	02.02.2024	9AM to 10AM	BI6.5.1 Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency. (Vitamin A)	Dr. K.K. Pandey
2	03.02.2024	9AM to 10AM	BI2.4, describe and discuss enzyme inhibitors as poisons and drugs and as therapeutic enzymes.	Dr. Rakesh Manglani
3	07.02.2024	2PM to 3PM	BI2.5 Describe and discuss the clinical utility of various serum enzymes as markers of pathological condition.	Dr. Rakesh Manglani
4	09.02.2024	9AM to 10AM	BI6.5.2 Describe the biochemical role of vitamin in the body and explain the manifestations of their deficiency .(Vitamin D)	Dr. K.K. Pandey
5	10.02.2024	9AM to 10AM	BI6.5.2 Describe the biochemical role of vitamin in the body and explain the manifestations of their deficiency .(Vitamin E & K)	Dr. K.K. Pandey
6	14.02.2024	2PM to 3PM	BI2.5 Describe and discuss the clinical utility of various serum enzymes as markers of pathological condition.	Dr. Rakesh Manglani
7	16.02.2024	9AM to 10AM	BI6.7.1 Describe the processes involved in maintenance of normal Ph , water & electrolyte balance of body fluids and the derangements associated with these.	Dr. K.S.C.Bose
8	17.02.2024	9AM to 10AM	BI6.5.3 Describe the biochemical role of vitamin in the body and explain the manifestations of their deficiency .(Vitamin C)	Dr. K.K. Pandey
9	21.02.2024	2PM to 3PM	BI2.7 Interpret laboratory result of enzyme activities & describe the clinical utility of various enzymes as markers of pathological conditions.	Dr. Rakesh Manglani
10	23.02.2024	9AM to 10AM	BI6.7.2 Describe the processes involved in maintenance of normal Ph , water & electrolyte balance of body fluids and the derangements associated with these.	Dr. K.S.C.Bose
11	28.02.2024	2PM to 3PM	BI6.5.3 Describe the biochemical role of vitamin in the body and explain the manifestations of their deficiency .(Vitamin C)	Dr. K.K. Pandey

PRACTICAL/SGD

S. N.	DATE	TIME	TOPIC	DEMO. BY
1	01.02.2024	11AM to 1PM	Urea clearance & creatinine clearance	All faculty
2	05.02.2024	3PM to 5 PM	Urea clearance & creatinine clearance	All faculty
3	06.02.2024	11AM to 1PM	BI11.12 Demonstrate and perform estimation of total bilirubin and direct bilirubin	All faculty
4	07.02.2024	3PM to 5 PM	BI11.12 Demonstrate and perform estimation of total bilirubin and direct bilirubin	All faculty
5	08.02.2024	11AM to 1PM	BI11.13 Demonstrate and perform estimation of SGOT & SGPT	All faculty
6	12.02.2024	3PM to 5 PM	BI11.13 Demonstrate and perform estimation of SGOT & SGPT	All faculty
7	13.02.2024	11AM to 1PM	BI11.14 Demonstrate and perform estimation of ALP	All faculty
8	14.02.2024	3PM to 5 PM	BI11.14 Demonstrate and perform estimation of ALP	All faculty
9	15.02.2024	11AM to 1PM	BI11.11 Demonstrate and perform estimation of Calcium & Phosphorus	All faculty
10	19.02.2024	3PM to 5 PM	BI11.11 Demonstrate and perform estimation of Calcium & Phosphorus	All faculty
11	20.02.2024	11AM to 1PM	Bi 6.14 LFT	All faculty
12	21.02.2024	3PM to 5 PM	Bi 6.14 LFT	All faculty
13	22.02.2024	11AM to 1PM	Demonstrate and perform estimation of serum total cholesterol and hdl cholesterol	All faculty
14	26.02.2024	3PM to 5 PM	Demonstrate and perform estimation of serum total cholesterol and hdl cholesterol	All faculty
15	27.02.2024	11AM to 1PM	Demonstrate and perform estimation of serum triglyceride and calculation of ldl & vldl.	All faculty
16	28.02.2024	3PM to 5 PM	Demonstrate and perform estimation of serum triglyceride and calculation of ldl & vldl.	All faculty
17	29.02.2024	11AM to 1PM	Record check	All faculty

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- March

S. N.	DATE	TIME	TOPIC	FACULTY
1	01.03.2024	9AM to 10AM	BI6.7 Describe the processes involved in maintenance of water & electrolyte balance of body fluids & derangements associated with these.	Dr. K.S.C.Bose
2	02.03.2024	9AM to 10AM	BI8.1 Discuss the importance of various dietary components and explain importance of dietary fiber.	Dr. Rakesh Manglani
3	06.03.2024	2PM to 3PM	BI6.7 Describe the processes involved in maintenance of water & electrolyte balance of body fluids & derangements associated with these.	Dr. K.S.C.Bose
4	09.03.2024	9AM to 10AM	BI6.9 Describe the functions of various minerals in the body, their metabolism and homeostasis and disorders.	Dr. K.K. Pandey
5	13.03.2024	2PM to 3PM	BI8.2 Describe the types & causes of protein energy malnutrition & its effect.	Dr. Rakesh Manglani
6	15.03.2024	9AM to 10AM	BI6.10 Describe the functions of various minerals in the body, Their metabolism and homeostasis and disorders.	Dr. K.K. Pandey
7	16.03.2024	9AM to 10AM	BI8.3 Provide dietary advice for optimal health in childhood and adult in disease condition like diabetes mellitus, coronary artery disease and in pregnancy.	Dr. Rakesh Manglani
8	27.03.2024	2PM to 3PM	BI8.4 Describe the causes (including dietary habits) effects and health risks associated with being overweight / obesity.	Dr. Rakesh Manglani
9	30.03.2024	9AM to 10AM	BI8.5 Summarize the nutritional importance of commonly used of items food includes fruits and vegetables.(macro – molecules & its importance)	Dr. Rakesh Manglani

PRACTICAL/SGD

S. N.	DATE	TIME	TOPIC	DEMO. BY
1	04.03.2024	3PM to 5 PM	Demonstrate and perform estimation of serum total cholesterol and hdl cholesterol	All faculty
2	05.03.2024	11AM to 1PM	Demonstrate and perform estimation of serum triglyceride and calculation of ldl & vldl.	All faculty
3	06.03.2024	3PM to 5 PM	Demonstrate and perform estimation of serum triglyceride and calculation of ldl & vldl.	All faculty
4	07.03.2024	11AM to 1PM	Describe and discuss the composition of csf	All faculty
5	11.03.2024	3PM to 5 PM	Describe and discuss the composition of csf	All faculty
6	12.03.2024	11AM to 1PM	ELISA	All faculty
7	13.03.2024	3PM to 5 PM	ELISA & record check	All faculty
8	14.03.2024	11AM to 1PM	Record check	All faculty
9	27.03.2024	3PM to 5 PM	Electrophoresis	All faculty
10	28.03.2024	11AM to 1PM	Electrophoresis	All faculty

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- April

S. N.	DATE	TIME	TOPIC	FACULTY
1	03.04.2024	2PM to 3PM	BI8.4 Describe the causes (including dietary habits) effects and health risks associated with being overweight / obesity. BI8.5 Summarize the nutritional importance of commonly used of items food includes fruits and vegetables.(macro – molecules & its importance)	Dr. Rakesh Manglani
2	05.04.2024	9AM to 10AM	BI 6.12.1 Describe the major types of hemoglobin and it's derivatives found in the body and their physiological/pathological relevance.	Dr. K.S.C.Bose
3	06.04.2024	9AM to 10AM	BI 7.6 Free radicals and antioxidant defense system in the body	Dr. K.K. Pandey
4	12.04.2024	9AM to 10AM	BI 11.8 Plasma proteins	Dr. Rakesh Manglani
5	13.04.2024	9AM to 10AM	BI 6.12.2 Describe the major types of hemoglobin and it's derivatives found in the body and their physiological/pathological relevance.	Dr. K.S.C.Bose
6	20.04.2024	9AM to 10AM	BI 7.5 Describe the role of xenobiotics in disease.	Dr. K.K. Pandey
7	24.04.2024	2PM to 3PM	BI 11.8 Plasma proteins	Dr. Rakesh Manglani
8	26.04.2024	9AM to 10AM	BI 7.2.1 & 7.2.2 Describe the process involved in replication and in repair of DNA.	Dr. K.S.C.Bose
9	27.04.2024	9AM to 10AM	BI 10.3 Describe the cellular and humoral components of the immune system and describe the types and structure of antibody.	Dr. K.K. Pandey

PRACTICAL/SGD/SDL

S. N.	DATE	TIME	TOPIC	DEMO. BY
1	01.04.2024	3PM to 5 PM	ELISA	Dr. Nidhi
2	02.04.2024	11AM to 1PM	ELISA	Dr. Nidhi
3	03.04.2024	3PM to 5 PM	Electrophoresis & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh
4	04.04.2024	11AM to 1PM	Electrophoresis & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh
5	08.04.2024	3PM to 5 PM	Chromatography & Seminar (Presentation + 10 MCQs for quiz)	Dr. Nidhi
6	15.04.2024	3PM to 5 PM	Chromatography & Seminar (Presentation + 10 MCQs for quiz)	Dr. Nidhi
7	16.04.2024	11AM to 1PM	DNA isolation and PCR & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh
8	18.04.2024	11AM to 1PM	DNA isolation and PCR & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh
9	22.04.2024	3PM to 5 PM	ABG & Seminar (Presentation + 10 MCQs for quiz)	Dr. Nidhi
10	23.04.2024	11AM to 1PM	ABG & Seminar (Presentation + 10 MCQs for quiz)	Dr. Nidhi
11	24.04.2024	3PM to 5 PM	Autoanalyzer and Quality control	Dr. Rakesh
12	25.04.2024	11AM to 1PM	Autoanalyzer and Quality control	Dr. Rakesh
13	29.04.2024	3PM to 5 PM	Colorimeter and spectrophotometer & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh
14	30.04.2024	11AM to 1PM	Colorimeter and spectrophotometer & Seminar (Presentation + 10 MCQs for quiz)	Dr. Harsh

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month- MAY

S. N.	DATE	TIME	TOPIC	FACULTY
1	01.05.2024	2PM to 3PM	BI7.2.2 Describe the processes involved in repair of DNA.	Dr. K.S.C. Bose
2	11.05.2024	9AM to 10AM	BI10.4 Describe & discuss innate and adaptive immune responses, self / non self recognition and the central role of T- helper cells in immune responses.	Dr. K.K. Pandey
3	15.05.2024	2PM to 3PM	BI7.2.2 Describe the processes involved in repair of DNA.	Dr. K.S.C. Bose
4	17.05.2024	9AM to 10AM	BI 9.3 EXTRA CELLULAR MATRIX	Dr. Rakesh Manglani
5	18.05.2024	9AM to 10AM	BI 7.2.3 Describe the Processes involved transcription.	Dr. K.S.C. Bose
6	22.05.2024	2PM to 3PM	BI 7.2.3 Post Transcriptional Modification .	Dr. K.S.C. Bose
7	24.05.2024	9AM to 10AM	BI 9.3 EXTRA CELLULAR MATRIX	Dr. Rakesh Manglani
8	25.05.2024	9AM to 10AM	BI 7.24 Describe the Processes involved in translation mechanisms.	Dr. K.S.C. Bose
9	29.05.2024	2PM to 3PM	BI 7.24 Describe the Processes involved in translation mechanisms.	Dr. K.S.C. Bose
10	31.05.2024	9AM to 10AM	BI10.2 describe various biochemical tumour marker and biochemical basis of cancer therapy.	Dr. K.K. Pandey

PRACTICAL/SGD/SDL

S. N.	DATE	TIME	TOPIC	DEMO. BY
1	01.05.2024	3PM to 5 PM	Seminar / SGD	All faculty
2	02.05.2024	11AM to 1PM	Seminar / SGD	All faculty
3	13.05.2024	3PM to 5 PM	DNA Isolation & PCR 7& Seminar	Dr. Harsh
4	14.05.2024	11AM to 1PM	DNA Isolation & PCR 7& Seminar	Dr. Harsh
5	15.05.2024	3PM to 5 PM	Auto Analyzer & QCR & Seminar	Dr. Rakesh
6	16.05.2024	11AM to 1PM	Auto Analyzer & QCR & Seminar	Dr. Rakesh
7	20.05.2024	3PM to 5 PM	Seminar & SGD	All faculty
8	21.05.2024	11AM to 1PM	Seminar & SGD	All faculty
9	22.05.2024	3PM to 5 PM	Seminar & SGD	All faculty
10	27.05.2024	3PM to 5 PM	Seminar & SGD	All faculty
11	28.05.2024	11AM to 1PM	Seminar & SGD	All faculty
12	29.05.2024	3PM to 5 PM	Seminar & SGD	All faculty
13	30.05.2024	11AM to 1PM	Seminar & SGD	All faculty

Professor and Head
 Dept. of Biochemistry
 BMGMC, Shahdol

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL

MBBS 2023 Batch

THEORY

Month – JUNE

S. N.	DATE	TIME	TOPIC	FACULTY
1	01.06.2024	9AM to 10AM	Test On AETCOM	All faculty
2	05.06.2024	2PM to 3PM	BI.10.2 Describe various biochemical tumor markers and the biochemical basis of cancer therapy.	Dr. K.K. Pandey
3	07.06.2024	9AM to 10AM	BI 7.3 Regulation of gene expression .	Dr. Rakesh Manglani
4	08.06.2024	9AM to 10AM	BI.10.3 Describe the cellular and humoral components of the immune system & describe the types and structure of antibody.	Dr. K.K. Pandey
5	12.06.2024	2PM to 3PM	BI.10.4 Describe & discuss innate and adaptive immune response , self /non self recognition and the central role of T – helper cell in immune response.	Dr. K.K. Pandey
6	14.06.2024	9AM to 10AM	PCT	All faculty
7	15.06.2024	9AM to 10AM	BI.10.5 Describe antigens and concepts involved development.	Dr. K.K. Pandey
8	19.06.2024	2PM to 3PM	BI.7.3 Recombinant DNA technology & gene therapy .	Dr. Rakesh Manglani
9	21.06.2024	9AM to 10AM	Mechanism of Hormonal action .	Dr. Rakesh Manglani
10	22.06.2024	9AM to 10AM	MCQs & Discussion [carbohydrate chemistry & metabolism]	All faculty
11	26.06.2024	2PM to 3PM	MCQs & Discussion [Lipid chemistry & metabolism]	All faculty
12	28.06.2024	9AM to 10AM	MCQs & Discussion [Protein chemistry & metabolism]	All faculty
13	29.06.2024	9AM to 10AM	MCQs & Discussion [molecular biology & vitamins mineral]	All faculty

PRACTICAL/SGD/SDL

S. N.	DATE	TIME	TOPIC
1	03.06.2024	3PM to 5 PM	Seminar & evaluation of students on certifiable competencies as per NMC (roll no. 01-10)
2	04.06.2024	11AM to 1PM	Seminar & evaluation of students on certifiable competencies as per NMC (roll no. 11-20)
3	05.06.2024	3PM to 5 PM	Seminar & evaluation of students on certifiable competencies as per NMC (roll no. 21-30)
4	06.06.2024	11AM to 1PM	Seminar & evaluation of students on certifiable competencies as per NMC (roll no. 31-40)
5	10.06.2024	3PM to 5 PM	Seminar & evaluation of students on certifiable competencies as per NMC (roll no. 41-50)
6	11.06.2024	11AM to 1PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 41-50)
7	12.06.2024	3PM to 5 PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 51-60)
8	13.06.2024	11AM to 1PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 61-70)
9	18.06.2024	11AM to 1PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 71-80)
10	19.06.2024	3PM to 5 PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 81-90)
11	20.06.2024	11AM to 1PM	Discussion on Home assignments & evaluation of students on certifiable competencies as per NMC (roll no. 91-100)
12	24.06.2024	3PM to 5 PM	Discussion on Home assignments
13	25.06.2024	11AM to 1PM	Discussion on Home assignments
14	26.06.2024	3PM to 5 PM	Discussion on Home assignments
15	27.06.2024	11AM to 1PM	Discussion on Home assignments

DEPARTMENT OF BIOCHEMISTRY
BIRSA MUNDA GOVERNMENT MEDICAL COLLEGE SHAHDOL