

TEACHING SCHEDULE
1ST SEMESTER M.B.B.S.
DEPARTMENT OF BIOCHEMISTRY, AIIMS
AUGUST - DEC., 2013

VENUE: Lectures: LT II
Practicals: Biochem, Demo. Room

Date	Day	Time	T/L Activity	Topic	Faculty/Tutor
07.08.2013	Wed	9-10 A.M.	Lecture	Introduction to Biochemistry	Dr. N. Singh
08.08.2013	Thu	10-11 A.M.	Lecture	Cell and its subcellular compartments	Dr. N. Singh
		2-5.00 P.M.	Practical	Introduction to Biochemistry practicals Instrumentation I	Dr. Archna Singh Dr. Archna Singh Dr. Sharmishtha
10.08.2013	Sat	9-10 A.M.	Lecture	Membrane structure and function	Dr. N. Singh
14.08.2013	Wed	9-10 A.M.	Lecture	Mechanism of membrane transport	Dr. N. Singh
16.08.2013	Fri	10-11 A.M.	Lecture	Amino acids: structure and function	Dr. S. Sen
		11-1 P.M.	Tutorial (PBL 1)	Membrane structure and function	Dr. N. Singh, Dr. N. Das Dr. Archna Singh Dr. Sharmishtha & all tutors
21.08.2013	Wed	9-10 A.M.	Lecture	Proteins: Introduction	Dr. S. Sen
22.08.2013	Thu	10-11 A.M.	Lecture	Structural organization & conformation of proteins	Dr. S. Sen
		2-5.00 P.M.	Practical	Instrumentation – II OSPE	Dr. Archna Singh Dr. Puja

23.08.2013	Fri	10-11 A.M.	Lecture	Methods of studying proteins, concept and application of proteomics	Dr. S. Sen
		11-1 P.M.	Tutorial (PBL 1 Contd.)	Membrane structure and function	Dr. N. Singh, Dr. N. Das Dr. Archna Singh Dr. Sharmishtha & all tutors
24.08.2013	Sat	9-10 A.M.	Lecture	Plasma proteins :Classification and functions	Dr. S. Sen
29.08.2013	Thu	10-11 A.M.	Lecture	Hemoglobin: Structure and function	Dr. Archna Singh
		2-5.00 P.M.	Practical	Paper chromatography	Dr. S. Sen Dr. Praveen Dr. Shrimanjunath
30.08.2013	Fri	10-11 A.M.	Lecture	Hemoglobin contd.	Dr. Archna Singh
		11-1 P.M.	Tutorial (PBL-II)	Hemoglobin structure and functions	Dr. Archna Singh Dr. S. Sen Dr. Puja & all tutors
04.09.2013	Wed	9-10 A.M.	Lecture	Enzymes: Introduction, classification and nomenclature	Dr. P. Chattopadhyay
05.09.2013	Thu	10-11 A.M.	Lecture	Principles of enzymatic catalysis	Dr. P. Chattopadhyay
		2-5.00 P.M.	Practical	Estimation of serum proteins, A:G Ratio	Dr. S. Sen Dr. Mainak Dr. Ujla
06.09.2013	Fri	10-11 A.M.	Lecture	Enzyme- substrate interactions	Dr. P. Chattopadhyay
		11-1 P.M.	Tutorial (PBL-II Contd.)	Hemoglobin structure and functions	Dr. Archna Singh Dr. S. Sen Dr. Puja
07.09.2013	Sat	9-10 A.M.	Lecture	Enzyme kinetics	Dr. P. Chattopadhyay
11.09.2013	Wed	9-10 A.M.	Lecture	Enzyme kinetics	Dr. P. Chattopadhyay
12.09.2013	Thu	10-11 A.M.	Lecture	Regulation of enzyme activity	Dr. P. Chattopadhyay
		2-5.00 P.M.	Practical	Estimation of amylase activity	Dr. P. Chattopadhyay Dr. Sachin Dr. Srinivas

13.09.2013	Fri	10-11 A.M.	Lecture	Iron metabolism and heme synthesis	Dr. Archna Singh
		11-1 P.M.	Tutorial (PBL)	Heme synthesis	Dr. Archna Singh Dr. S. Sen and all Residents
CULTURAL WEEK: 16TH to 22ND SEPTEMBER 2013					
25.09.2013	Wed	9-10 A.M.	Lecture	Isoenzymes; enzymes in clinical practice	Dr. Archna Singh
26.09.2013	Thu	10-11 A.M.	Lecture	Application of enzymes and drug designing	Dr. Archna Singh
		2-5.00 P.M.	Practical	Effect of pH and EDTA on amylase activity	Dr. P. Chattopadhyay Dr. Seema Dr. Meitei
27.09.2013	Fri	10-11 A.M.	Lecture	Carbohydrate-chemistry and function	Dr. M. R. Rajeswari
		11-1 P.M.	Tutorial (Small group discussion)	Enzymes	Dr. P. Chattopadhyay & all tutors
FIRST MID SEMESTER EXAMINATION (1ST to 11TH OCT. 2013) SUPPLEMENTARY EXAMINATION (26TH OCT. to 1ST NOV. 2013)					
17.10.2013	Thu	10-11 A.M.	Lecture	Complex carbohydrates	Dr. M. R. Rajeswari
		2-5.00 P.M.	Practical	Estimation of LDH activity	Dr. N. Das Dr. Muthuraman Dr. Sharmishtha
18.10.2013	Fri	10-11 A.M.	Lecture	Introduction to Metabolism, Pathway of glucose metabolism, the glycolytic pathway	Dr. N. Das
		11-1 P.M.	Tutorial	Carbohydrate metabolism	Dr. N. Das
19.10.2013	Sat	9-10 A.M.	Lecture	Glycolytic pathway contd.	Dr. N. Das
23.10.2013	Wed	9-10 A.M.	Lecture	Regulation of glycolysis	Dr. N. Das

24.10.2013	Thu	10-11 A.M. 2-5.00 P.M.	Lecture Practical	Gluconeogenesis Serum protein electrophoresis	Dr. K. Luthra Dr. S. Sen Dr. Janvie Dr. Puja
25.10.2013	Fri	10-11 A.M. 11-1 P.M.	Lecture Tutorial	Introduction to glycogen metabolism: Glycogenesis & Glycogenolysis Co-ordinated regulation of glycolysis and gluconeogenesis	Dr. K. Luthra Dr. K. Luthra
30.10.2013	Wed	9-10 A.M.	Lecture	Glycogenesis, Glycogenolysis and their regulation	Dr. K. Luthra
31.10.2013	Thu	10-11 A.M. 2-5.00 P.M.	Lecture Practical	Regulation of blood glucose Blood glucose	Dr. K. Luthra Dr. K. Luthra Dr. Sandeep Agrawal Dr. Ujla
01.11.2013	Fri	10-11 A.M. 11-1 P.M.	Lecture Tutorial	HMP Shunt Glycogen storage disease (Clinical Case)	Dr. K. Chosdol Dr. K. Chosdol & Residents
02.11.2013	Sat	9-10 A.M.	Lecture	Galactose and fructose metabolism	Dr. Archana Singh
06.11.2013	Wed	9-10 A.M.	Lecture	TCA cycle	Dr. K. Chosdol
07.11.2013	Thu	10-11 A.M. 2-5.00 P.M.	Lecture Practical	Electron transport chain, ATP synthesis Screening test for inborn errors of metabolism	Dr. K. Chosdol Dr. K. Chosdol Dr. Shiba Dr. Srinivas
08.11.2013	Fri	10-11 A.M. 11-1 P.M.	Lecture Tutorial	Lipids, chemistry, classification and functions Inborn errors of metabolism	Dr. S.S. Chauhan Dr. K. Chosdol & Residents
13.11.2013	Wed	9-10 A.M.	Lecture	Mobilization of fat from adipose tissue, fatty acid oxidation	Dr. S.S. Chauhan

15.11.2013	Fri	10-11 A.M.	Lecture	Ketone bodies, synthesis and utilization	Dr. S.S. Chauhan
		11-1 P.M.	Tutorial	Biosynthesis of fatty acids and its regulation	Dr. S.S. Chauhan
16.11.2013	Sat	9-10 A.M.	Lecture	Lipoproteins, structure, functions and metabolism	Dr. Alpana Sharma
20.11.2013	Wed	9-10 A.M.	Lecture	Lipoprotein metabolism and role in plasma cholesterol homeostasis	Dr. Alpana Sharma
21.11.2013	Thu	10-11 A.M.	Lecture	Prostaglandins	Dr. M. R. Rajeswari
		2-5.00 P.M.	Practical	Total cholesterol	Dr. S.S. Chauhan Dr. Rajani Dr. Shrimanjanath
22.11.2013	Fri	10-11 A.M.	Lecture	Biosynthesis of cholesterol and its regulation	Dr. Alpana Sharma
		11-1 P.M.	Tutorial	Hyperlipoproteinemias (Case study)	Dr. Alpana Sharma & Residents
27.11.2013	Wed	9-10 A.M.	Lecture	Amino acid metabolism, an overview and general reactions	Dr. D. N. Rao
28.11.2013	Thu	10-11 A.M.	Lecture	Detoxication of ammonia, urea cycle	Dr. D. N. Rao
		2-5.00 P.M.	Practical	Blood urea	Dr. D. N. Rao Dr. S. Appuni Dr. Meitei
29.11.2013	Fri	10-11 A.M.	Lecture	Biosynthesis of phospholipids and triacylglycerol	Dr. Alpana Sharma
		11-1 P.M.	Tutorial	Interlinks of metabolic pathways, metabolic adaptations in diabetes mellitus and starvation	Dr. N. Das
30.11.2013	Sat	9-10 A.M.	Lecture	Sulphur containing amino acids: homocysteinemia & Inborn errors of amino acid metabolism	Dr. D. N. Rao

**1ST END SEMESTER EXAMINATION (2ND DEC. to 12TH DEC. 2013)
SUPPLEMENTARY EXAMINATION (2ND WEEK of JANUARY 2014)**