SMS Medical College, Jaipur					
MBBS Course Curriculum I st Year					
I st Semester			**II nd Semester**		
Anatomy			**Anatomy**		
Topic	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**	**Topic**	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**
General Anatomy	8	16	Head & Neck	57	70
Upper limb	26	36	Neuro anatomy	31	40
Lower limb	28	44	Histology	8	16
Thorax	23	30	Embryology	8	16
Abdomen, Pelvis and perineum	35	58			
Histology	15	30			
Embryology	15	30			
Total hrs	**150**	**244**	**Total hrs**	**104**	**142**
I st Semester			**II nd Semester**		
Physiology			**Physiology**		
Topic	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**	**Topic**	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**
Biophysics and Body Fluids Physiology	5		Cardiovascular Physiology (Part II)	13	
Muscle and Nerve Physiology	8		Endocrine Physiology	14	
Hemato – Physiology including Immune Mechanisms	15		Physiology of Skin and Temperature Regulation	3	
Gastrointestinal Physiology	14		Special Senses Physiology	10	
Respiratory Physiology	12		Reproductive Physiology	12	
Renal Physiology inclusive of pH Regulation	14		Central Nervous System Physiology (Part I)	18	
Autonomic Physiology	5		Central Nervous System Physiology (Part II)	17	
Cardiovascular Physiology (Part I)	15		Space Physiology	1	
			Exercise Physiology	1	
Total hrs	**86**		**Total hrs**	**91**	
I st Semester			**II nd Semester**		
Biochemistry			**Biochemisty**		
Topic	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**	**Topic**	**Theory (No. of Hrs)**	**Practical (No. of Hrs)**

General Introduction	1		Hemoglobin & Porphyrin Metabolism	3	
Carbohydrate Chemistry	2		Organ Function Tests	3	
Lipid Chemistry	2		(Renal, Hepatic & Gastric & Thyroid)	2	
Protein Chemistry	2		Metabolism of Purines & Pyrimidines	4	
Plasma Proteins; Tissue Proteins in Health and Disease	2		DNA replication (Damage & Repair)	3	
Nucleoprotein Chemistry	2		Protein Metabolism at Molecular basis:- Transcription, Translation, Protein Modification & Targetting	2	
Vitamins	5		Environmental Biochemistry & Cancer	3	
Enzymes	4		Metabolism of Xenobiotics	2	
Nutrition	2		Immunochemistry & Biochemistry of AIDS	3	
Biological Oxidation	3		Applications of Isotopes in Medicine	1	
Carbohydrate Metabolism	5		Acid base Balance & pH; Water & Electrolyte Balance/Imbalance	2	
Lipid Metabolism	5		Molecular Basis of Genetics & Control of Gene Expression	3	
Amino Acid Metabolism & Nitrogen Balance	5		Genetic Engineering & Its Applications (Gene Therapy & Human Genome Project)	3	
Mineral Metabolism	4		Free Radicals & Antioxidants	1	
Integration of Metabolisms	2		Metabolic diseases	1	
Identification of Carbohydrates		4	Tissue proteins in health & disease	1	
Identification of Lipids		2	Biochemical Techniques :- applied in Clinical Analysis (RIA, ELISA, CLIA, Automation)	3	
Identification of Proteins		6	Hormone Action & measurement	2	

Identification of Unknown of physiological importance (carbohydrate/lipid/protein)		1	Food Stuffs		
Analysis of Normal Urine		2	(a) Analysis of Milk		2
Analysis of Pathological Urine		2	(b) Analysis of Egg		2
Colorimetry & Photometry		2	(c) Analysis of Wheat Flour & Bread		2
Estimation of Blood Sugar		2	Spectrophotometery		2
			Flame Photometry		1
Estimation of Blood Urea		2			
			Methods of Purification I (Electrophoresis)		2
Estimation of Serum Creatinine			Methods of Purification II (Chromatography)		2
		2	Fluorometry		1
Estimation of Serum Cholesterol		2			
Total hrs	**46**	**27**	**Total hrs**	**42**	**14**