

SMS Medical College, Jaipur								
MBBS Course Curriculum II nd Year								
III rd Semester			IV th Semester			V th Semester		
Pathology			Pathology			Pathology		
Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
Cell injury adaptations	5		Blood vessels	2		Renal	10	
Inflammation healing repair adaptation	5		Respiratory system	5		Lower urinary tract	3	
Fluid and hemodynamic dist	1		GIT and Salivary gland	8		Male genital system	1	
Immunology, genetic disorders	5		Pancreas	1		Female genital system	6	
Neoplasia	7		Hepatobiliary	5		Disease of breast	2	
Bacterial, Viral, fungal, parasitic, nutritional disease	10		CVS	5		Bone joint	2	
Radiation induced injury	2		RE system	3		Endocrine	5	
Introduction cell development	1		Myelodysplasia,	1		Others (Muscle/ skeletal/ skin)	3	
Anemia general	1		Leukocyte Disorder,	1		Plasma cell dyscrasias,	1	
Microcytic hypo-chromic anemia	1		acute leukemia, chronic leukemia,	2		bleeding to vascular	1	
Macrocytic anemia	1		MPO Flowcytometry for leukemia	3		Platelet disease	1	
Hemolytic anemia	2		Principle and interpretation	6		Bleeding due to coagulation disorders	1	
Pancytopenia aplastic anemia	1		LFT jaundice	1		DIG	1	
Automation in hematology	1		Thyroid found test	1		Automation in coagulation tests	1	
Blood collection anticoagulants	1		Pancreatic test + DM	1		Lab diagnosis of DM	1	
BM, PBF examination	1		Exfoliatic cytology	1		Autopsy 7-10	1	
Autopsy 1-3	3		Sex chromatin	1		Kidney function test	1	
CSF examination	1		Autopsy 4-6	3		Transfusion transmitted diseases	1	

FNAC	1		Blood component - Preparation, storage and indication, transfusion reaction	2				
Donor selection	1							
ABO and Rh grouping	1							
Cross matching								
Total hrs	52		Total hrs	52		Total hrs	42	
III rd Semester			IV th Semester			V th Semester		
Microbiology			Microbiology			Microbiology		
Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
GENERAL BACTERIOLOGY AND GENETICS	10		VIBRIO/HELICOBACTER /CAMPYLOBACTER/PSEUDOMONAS/AEROMONAS & OTHER NONFERMENTERS	4		YERSINIA/FRANCISELLA/PASTEURELLA	4	
IMMUNOLOGY	10		GRAM POSITIVE BACILLI AND ANAEROBES	8		MISCELLANEOUS	5	
PARASITOLOGY	16		MYCOBACTERIOLOGY	4		VIROLOGY	16	
MYCOLOGY	8		RICKETTSIA/CHLAMYDIA/MYCOPLASMA/SPIROCHETES	6		AFB staining		40
GPC AND GNC	6		HAEMOPHILLUS/BORDETELLA/BRUCELLA	3		Colony characteristics of LF & NLF on MC Agar		
ENTEROBACTERIACAE	10		Negative staining		40	Colony characteristics of GPC & Candida on NA		
Microscope & Microscopy		40	Spore staining			Colony characteristics of GPC on blood agar		
Sterilization & Disinfection,			Grams staining			Colony characteristics of GPC & Pseudomonas on NA		

Culture Media			Parasitology spot			Stool Examination		
Biochemical Reaction			Mycology spots			Biomedical waste management		
Preparation & fixation of smear			Antimicrobial sensitivity testing			Hospital acquired infection		
Simple staining,			Demonstration of Serological tests VDRL, Widel, ASLO, CRP, RF Demonstration of ELISA			Demonstration of PCR technique		
Collection and Transportation of samples			Record checking & viva-voce			Round of Bacteriology, Mycobacteriology, Mycology &		
Record checking & viva-voce			Quiz			Advance Research Lab & Viral diagnostic lab		
Quiz			MCQ Exam			Record checking & viva-voce		
MCQ Exam			Case Presentation			Quiz		
Case Presentation			Student seminar			MCQ Exam		
Student seminar						Case Presentation		
						Student Seminar		
Total hrs	60	40	Total hrs	25	40	Total hrs	25	40

III rd Semester			IV th Semester			V th Semester		
Pharmacology			Pharmacology			Pharmacology		
Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
General Pharmacology	11		C.V.S	9		Chemotherapy Part II	9	
			Drug Acting on Renal system	2		Drug treatment of GTI, Malaria, T.B, Leprosy	7	
ANS (Autonomic Nervous System)	8		Gastrointestinal System	5		Cancer	5	
CNS	16		Chemotherapy Part I	6		Endocrine System	7	
PNS	3					Immunosuppressant	7	
Autacoids	3						Chelating Agents	2
NASID, Rheumatoid Arthritis & Gout	2							
Respiratory System	2							
haemopoitic System	6							
Pharmacy Practicals		18	Pharmacy Practicals		12	Pharmacy Practicals		8

EP practicals		14	EP practicals		12	EP practicals		8
Total hrs	51	32	Total hrs	22	24	Total hrs	37	16
III rd Semester			IV th Semester			V th Semester		
Forensic Medicine			Forensic Medicine			Forensic Medicine		
Topic	Theory (No. of Hrs)	Practi cal (No. of Hrs)	Topic	Theory (No. of Hrs)	Practica l (No. of Hrs)	Topic	Theory (No. of Hrs)	Practica l (No. of Hrs)
Introduction to Forensic Medicine	1		Regional Injuries	2		Scene of crime investigation	1	
Legal Procedures	2		Thermal Injuries	4		Forensic Serology & Trace evidence	1	
Medical Law & Ethics	3		Asphyxia deaths	7		Starvation Deaths	1	
Identification	3		Infanticide	2		Medico-legal Aspects of AIDS & Bio-Medical Waste	1	
Death & Postmortem changes	3		Sexual Offences	4		Torture & Custodial deaths	1	
Autopsy, procedure, incision, preservation of viscera, postmortem artifacts	3		Impotence & Sterility	2		Anesthetic & Surgical Deaths	1	
Mechanical Injuries, types of injuries, firearms, report writing	9		Pregnancy & Delivery, legitimacy	2		DNA Fingerprinting	1	
Medico-legal Aspects of wounds, related IPC	2		Abortion	1		Deliriant Poisons	2	
Introduction to Toxicology	1		Forensic Psychiatry	3		Cardiac Poisons	2	
Toxicology – General considerations and management of a poisoning case	3		Metallic Poisons	4		Spinal & Peripheral Nerve Poisons	1	
Corrosive poisons	2		Non Metallic Poisons	1		Poisoning with Drug overdose – NSAIDS, anti-histaminics, Anti- infectives, Hormones etc	1	
Agricultural poisons	3		Organic Irritant poisons – Plant origin	2		Drug dependence & Drug abuse – Psychoactive drugs; Party drugs;	1	

SPOTTING	2		Organic Irritant poisons – Animal origin	1		Food Poisoning	1	
			CNS Depressants – Alcohol	3		Miscellaneous poisons – Formaldehyde, hair dye, nitrated, Water contaminants	1	
			CNS Depressants – Opium	2		SPOTTING	2	
			CNS Depressants – Sedatives & Hypnotics	1				
			Asphyxiates	3				
			SPOTTING	1				
Total hrs	37		Total hrs	45		Total hrs	18	

III rd Semester			IV th Semester			V th Semester		
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Medicine			Medicine			Medicine		
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Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
			Introduction to Clinical Medicine	2		Basic consideration of infectious diseases	3	
			The art of history taking	3		Diseases caused by bacterial infection	25	
			Basic symptomatology & differential diagnosis	25		Diseases caused by Mycobacterial infection	4	
			Basics of Clinical Examination	8		Diseases caused by viruses infection	16	
			System wise clinical examination	12		Diseases caused by spirochetal infection	2	
Total hrs			Total hrs	50		Total hrs	50	

III rd Semester			IV th Semester			V th Semester		
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Surgery			Surgery			Surgery		
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Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
			Basic Principles of Surgical Practice.	10		Topic of Neurosurgery	5	
			Clinical Surgery (Simple)	28		Topic of Endocrine Surgery (Thyroid , Adrenal & Parathyroid)	3	
			Minor Operative Procedure	11		Topic of Plastic Surgery	5	
						Topic of Family Welfare	4	
						Miscellaneous Topic	7	
Total hrs			Total hrs	49		Total hrs	24	

III rd Semester			IV th Semester			V th Semester		
Community Medicine			Community Medicine			Community Medicine		
Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)	Topic	Theory (No. of Hrs)	Practical (No. of Hrs)
Nutrition								
General introduction nutrients	1							
Balanced diet	1							
Nutritional assessment	1							
Nutritional disorders	1							
National nutritional programs	1							
Environment								
Water	1							
Pollution	1							
Housing	1							
Excreta disposal	1							
Medical Information & Biostatistics								
MIS	1							
Various types of data/ variables	1							
measures of central tendency	1							

Measures of dispersion	1							
Demography								
Introduction & changing trends in demography	1							
Fertility related statistics	1							
Contraceptive methods	1							
National family welfare program	1							
MTP act & PCPNDT Act	1							
Sociology	1							
Total hrs	19		Total hrs			Total hrs		