

DR. S. N. MEDICAL COLLEGE, JODHPUR

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 | |

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| 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 | | |

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| 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 |

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| 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) | Practical (No. of Hrs) | Topic | Theory (No. of Hrs) | Practical (No. of Hrs) | Topic | Theory (No. of Hrs) | Practical (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 | |

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| 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 | | |
|------------------|---------------------|------------------------|---|---------------------|------------------------|--|---------------------|------------------------|
| Medicine | | | Medicine | | | 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) |
| | | | 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 | | |
| Surgery | | | Surgery | | | Surgery | | |

| 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) |
|------------------|---------------------------|----------------------------------|---|---------------------------|-------------------------------|---|---------------------------|-------------------------------|
| | | | 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 | | |
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| Community Medicine | | | Community Medicine | | | Community 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) |
| 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 | | | | | | | |

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| 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 | | |