Sylhet MAG Osmani Medical College

Academic Calendar
&
Lesson Planner 2026

Phase II

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The academic calendar of Sylhet MAG Osmani Medical College is based on MBBS curriculum 2021.

The study methodology will be used as follows:

- Large group teaching
    - ➢ Lecture
    - ➢ Generic topic
- Small group teaching
    - ➢ Practical
    - ➢ Tutorial
- Clinical/Bedside teaching
- Integrated teaching

Pharmacology

❖ Lecture

Time frame	Topics	Teaching hours
1st Quarter (January-March)		
Week 1	• Introduction to Pharmacology • Dosage formulation & delivery system • Routes of drug Administration	• Saturday 8 to 9 am • Sunday 11 am to 12 pm • Tuesday 11 am to 12 pm
Week 2	• Drug Absorption • Drug Distribution • Drug Biotransformation	
Week 3	• Drug Elimination • Clinical Pharmacokinetics • Pharmacodynamics: Specific and non-specific mechanisms, receptors involved	
Week 4	• Quantitative aspects of drug action • Drug Interaction at different levels & Individual variations in drug responses • Drug safety and Pharmacovigilance	
Week 5	• Introduction to ANS & Cholinergic Drugs • Anticholinergic, Antimuscarinic • Anticholinergic, Anti-nicotinic	
Week 6	• Adrenergic neurotransmission & Adrenergic drug • Adrenergic antagonist • Drugs used in glaucoma	
Week 7	• Diuretics • Drugs used in hypertension lecture 1 • Drugs used in hypertension lecture 2	
Week 8	• Anti-anginal drugs • Drugs used in congestive cardiac failure • Anti-arrhythmic Drugs	
Week 9	• Anti-platelet drugs & Lipid lowering drugs • Anticoagulants and Thrombolytics • Drugs for anemia	
Week 10	• Drugs used in Diabetes mellitus lecture 1 • Drugs used in Diabetes mellitus lecture 2 • Adrenocortical steroids	
Week 11	• Reproductive system • Oxytocic, tocolytics & Drugs used in thyroid disorder • Respiratory pharmacology	

Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	• Drugs used in Peptic ulcer Disease • Antiemetic and Prokinetic drugs • Drugs to treat diarrhea & Laxatives • Drugs for Inflammatory Bowel Diseases (IBD) & irritable bowel syndrome (IBS)	
2nd Quarter (April-June)		
Week 14	• Drugs used in anxiety & sleep disorder • Antidepressant drugs • Antipsychotic drugs	
Week 15	• Review class	
Week 16-17	**1st Term Examination**	
Week 18	Feedback class	
Week 19	• Antiepileptics/ Anticonvulsants • General anaesthetics • Local anaesthetics & anti-parkinsonian drug	
Week 20	• Opioid analgesics • CNS stimulants & drug abuse • NSAIDs	
Week 21	• Autacoids lecture 1 • Autacoids lecture 2 • Introduction to antimicrobials lecture 1	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
Week 23	• Introduction to antimicrobials lecture 2 • Cell wall synthesis inhibitors lecture 1 • Cell wall synthesis inhibitors lecture 2	
Week 24	• Aminoglycosides & Tetracyclines • Macrolides & Chloramphenicol • Sulfonamides & Cotrimoxazole	
Week 25	• Quinolones & Fluoroquinolones • Drugs used in Tuberculosis lecture 1 • Drugs used in Tuberculosis lecture 2	
Week 26	• Drugs used in Malaria lecture 1 • Drugs used in Malaria lecture 2 • Anti-Amoebic Drugs	
3rd Quarter (July-September)		
Week 27	• Drugs used in Fungal & Viral Infections, Cancer Chemotherapy • Clinical pharmacology 1 • Clinical pharmacology 2	
Week 28-31	• Review class	
Week 32-33	**2nd Term Examination**	

Week 34	Feedback class	
Week 35-39	Review Class	
4th Quarter (October-December)		
Week 40	Review Class	
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

Tutorial/ Practical & Demonstration

Time frame	Topics	Teaching hours
1st Quarter (January - March)		
Week 1	• Introduction to Pharmacology • Prescription writing • Pharmacokinetics • Prescription writing	• Saturday to Thursday 12 to 2.30 pm • Tutorial/practical room
Week 2	• Biotransformation • Prescription writing • Excretion • Drug dosage formulation	
Week 3	• Pharmacodynamics • Drug dosage formulation • Adverse drug reactions (ADRs) • Drug dosage formulation	
Week 4	• Drug interaction • Clinical pharmacokinetics • Introduction to ANS • Clinical pharmacokinetics	
Week 5	• Cholinomimetic drugs • Study of dose response relationship • Anticholinergic drugs and OPC poisoning • Study of drug antagonism	
Week 6	• Adrenergic Agonists • Adverse drug reaction- ADRs reporting • Adrenergic Antagonists and drugs used in glaucoma • Adverse drug reaction- ADRs reporting	
Week 7	• Drugs used in hypertension • Interpretation of tracing on BP • Diuretics • Interpretation of tracing on BP	
Week 8	• Drugs used in angina, • Interpretation of tracing on BP • Drugs used in HF & arrhythmia • Interpretation of tracing on BP	
Week 9	• Antiplatelet, anticoagulant, fibrinolytic drugs • Study of effects of drugs on skeletal NMJ • Drugs used in diabetes mellitus • Study of effects of drugs on skeletal NMJ	

Week 10	• Steroids • OSPE • Drugs for thyroid disorders • OSPE	
Week 11	• OCP and HRT • OSPE • Oxytocics and tocolytics • Traditional practical	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	• Respiratory pharmacology • Traditional practical • Drugs used in PUD • Traditional practical	
2nd Quarter (April-June)		
Week 14	• Antiemetic and prokinetic drugs • Review class • Drugs used in diarrhea, constipation, IBS, IBD • Review class	
Week 15	• Introduction to CNS • Drug information sources • Drugs used in anxiety and sleep disorders • Drug information sources	
Week 16-17	**1st Term Examination**	
Week 18	Feedback Class	
Week 19	• Antipsychotic drugs • Drug information sources • Antiparkinson's drugs • Essential drug concept	
Week 20	• Antiepileptics & Anticonvulsants • Essential drug concept • Antidepressant drugs • Essential drug concept	
Week 21	• General anaesthetics • P drug concept • Local anaesthetics • P drug concept	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
Week 23	• Opioid analgesics • P drug concept • Drug dependence, Tolerance, Addiction • Prescription audit	
Week 24	• Eicosanoids, Prostaglandins, NSAIDs,DMARDs	

	• Prescription audit • Histamine & antihistamines • Prescription audit	
Week 25	• Serotonergic drugs and drugs used in migraine • Prescription audit • Introduction of Antimicrobial • Chemotherapy Prescription audit	
Week 26	• Cell Wall Synthesis Inhibitors • Review class • Aminoglycosides & Tetracyclines • Review class	
3rd Quarter (July-September)		
Week 27	• Macrolides, Chloramphenicol & Clindamycin • Review class • Nucleic Acid Synthesis Inhibitors • OSPE	
Week 28	• Drugs used in Tuberculosis and Leprosy • OSPE • Drugs used in Malaria and Kala-Azar • Clinical case study- Hypertension	
Week 29	• Antiamoebic drugs and Antihelminthic drugs • Clinical case study- Hypertension • Drugs used in Filariasis and Scabies • Traditional practical related class	
Week 30	• Antifungal and antiviral drugs • Clinical case study- DM • Anticancer Drugs • Clinical case study- DM	
Week 31	• Clinical Pharmacology • Clinical case study- PUD • Drugs used in diarrhea, constipation, IBS, IBD • Clinical case study- PUD	
Week 32-33	**2nd Term Examination**	
Week 34	Feedback Class	
Week 35-39	Review Class	
4th Quarter (October-December)		
Week 40	Review Class	
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

Forensic Medicine
&
Toxicology

❖ Lecture

Time frame	Topics	Teaching hours
1st Quarter (January-March)		
Week 1	● Introduction to Forensic Medicine; history & Scope. ● Recent advance in Forensic medicine: (Disorder of sex development) DSD; Age of child. ● Consent, Euthanasia	● Saturday 11 am to 12 pm ● Sunday 8 to 9 am ● Monday 11 am to 12 pm
Week 2	● Medical records. ● Mass disaster, disaster victim identification (DVI); Sports medicine. ● Forensic science & Trace evidence: Blood stain Blood group, Hair, Semen;	
Week 3	● DNA Profiling ● Legal structure: courts, power & function; penal code; sentence ● Legal (court) procedure: Evidence, witness; ideal witness; summon.	
Week 4	● Certificate & medico-legal reports ● Basics of Death: definition, type, mode, manner, cause, diagnosis, declaration, somatic death, apparent death, brain death ● Changes of death: immediate, early, Late change	
Week 5	● Post mortem artefact ● Sudden death. ● Custodial death; Anaesthetic and operative deaths.	
Week 6	● Torture and neglect (BBS, Starvation) ● Autopsy: def; type; prerequisite, procedure; laboratory procedure, report writing; Special autopsy & autopsy of special situation. ● Modern mortuary; Exhumation; Inquest; MLS	
Week 7	● Infanticide: Live born, dead born, still born ● Define injury, hurt, assault, battery, homicide	
Week 8	● Medicolegal aspect: grievous hurt, defence wound, cause of death. ● Mechanical wounds: Abrasion; Bruise; laceration; Incised, Stab wound ● Regional; transportation; thermal, electrical wound	
Week 9	● Hanging: Definition, type, mechanism, cause of death, post-mortem finding; ML imp, difference from PM suspension.	

	• Strangulation: cause of death, PM finding, ML imp,. Drowning: type, pathophysiology; PM finding; cause of death; Ml imp, diatom; lab investigation	
Week 10	• Suffocation: smothering; choking; gagging; • Impotency, sterility; Marriage, divorce; legitimacy; paternity, maternity • Hymen, Virginity, defloration	
Week 11	• Sexual offence: rape, adultery, incest • Unnatural sexual offence: sodomy, bestiality, lesbianism • Sexual perversion, Sexual instinct • Identification: trait, objectives, Ml imp.	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	• Race; Sex; age • Dactylography, Tattoo, Scar • Modern technique, comparison data; superimposition	
2nd Quarter (April-June)		
Week 14	• Artificial insemination; surrogate mother • Pregnancy: Ml imp, Sign, PM finding • Delivery: Ml imp, sign of recent/remote delivery in living & dead; PM finding	
Week 15	Review class	
Week 16-17	**1st Term Examination**	
Week 18	Feedback class	
Week 19	• Abortion: Therapeutic, Justifiable & Criminal abortion • Forensic Psychiatry; Types of mental disorder; • Elements/terms of psychiatry (phobia, delirium, delusion, illusion, hallucination, psychosis, neurosis, impulse etc)	
Week 20	• Personality disorder; aggressive behaviour; true insanity • Civil, criminal & social responsibilities; Important rules • Principles of medical ethics; Ideal etiquette	
Week 21	• BMDC; right & privilege of doctor/patient; • Duties of doctor /patient; Professional secrecy • WMA declaration (Geneva, Int code, Helsinki, Tokyo)	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
Week 23	• Doctor patient relationship (def, element, skills, model) • Ethical malpractice (infamous conduct); • Negligence (Malpraxis): def, element, prevention, defense, Doctrine res Ipsa loquitur, contributory,	

	therapeutic misadventure, corporate negligence, ethical dilemma	
Week 24	● General aspect of poisoning: Domestic & therapeutic poison. ● Poison: def, classification, factor, effect, diagnosis ● Principles of management/objectives.	
Week 25	● Corrosive poisons: strong acids and alkalis. ● Acetaminophen (paracetamol) ● Metallic: Arsenic, Copper, Mercury	
Week 26	● Insecticide (OPC); kerosene oil ● Delirient: Datura, Cannabis; cocaine ● Narcotic & hypnotic: Opium; Barbiturate	
3rd Quarter (July-September)		
Week 27	● Inebriant: Alcohol, methyl alcohol ● Substance abuse; solvent abuse ● Carbon monoxide poisoning; war gas.	
Week 28	● Snake Bite. ● Food poisoning. ● Potka fish (Puffer fish)	
Week 29	● Yellow oleander ● Clinical toxicology; Imp & forensic aspect ● Environmental toxicology;	
Week 30	● Occupational toxicology; ● Analytic toxicology ● Overall conception regarding forensic medicine	
Week 31	● Attitude, Interpersonal skill, Extra academic skill ● Soft skill, management skill, leadership skill	
Week 32-33	**2nd Term Examination**	
Week 34	Feedback class	
Week 35-39	Review Class	
4th Quarter (October-December)		
Week 40	Review Class	
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

Tutorial Classes

Tutorial class starts from 12.00 pm and ends at 02.30 pm

❖ Practical Classes

Category	Time frame	Teaching hours
Practical	40 hours	Saturday to Thursday 12 to 2.30 pm
Mortuary visit	8 days	
Court visit, Police station, OCC, DNA/Forensic lab visit	4 days	

❖ Generic Topics

Date	Topic	Time
1st month	Communication skill	● Duration- 1.5 hours ● Date will be determined by phase committee
2nd month	Doctor–patient relationship (DPR)	
3rd month	Physicians' bedside manner, etiquette and rapport building with patients	

❖ Integrated Teaching

Date	Topics	Subject	Time
1st month	Death	Conducted by Forensic medicine	Wednesday (12.00 pm to 02.00 pm)
2nd month	Drowning	Conducted by Forensic Medicine	
3rd month	Burn	Conducted by Forensic Medicine	
4th month	Electrocution and lightning	Conducted by Forensic Medicine	
5th month	Pulmonary Tuberculosis	Conducted by Pharmacology	
6th month	Poisoning	Conducted by Forensic Medicine	
7th month	Substance abuse	Conducted by Forensic Medicine	
8th month	Malaria	Conducted by Pharmacology	

Pathology

❖ Lecture

Time Frame	Topics	Teaching Hours
1st Quarter (January-March)		
Week 1	● Introduction of pathology, Histo-cytopathological sample collections, preservation, transport and processing of pathological samples. An outline of autopsy. ● Cellular adaptations: definitions, features and clinical significance.	● Tuesday 8-9 am ● Wednesday 11am–12 pm
Week 2	● Cell injury: Definitions, injurious agents, types, reversible cell injury-features and morphology, ● Mechanism of hypoxic injury and Free radicals.	
Week 3	● Cell injury: Irreversible cell injury-Necrosis & Apoptosis-features, example. ● Intracellular accumulation, calcification, Cellular Aging.	
Week 4	● Inflammation: Definition, causes, cardinal signs, types, acute inflammation- cellular and vascular events; Chemotaxis, Phagocytosis.	
Week 5	● Acute inflammation: Chemical mediators, morphological patterns of acute inflammation, outcome of acute inflammation, Systemic effects of inflammation. ● Chronic inflammation: Definition, cells of chronic inflammation, Granulomatous inflammation – causes, examples and mechanism.	
Week 6	● Healing and repair: Definition, types, mechanism, factors affecting wound healing, complications of wound healing.	
Week 7	● Hemodynamic disorders: Edema, effusions, Electrolyte disorders, Hyperemia, congestion, Haemorrhage, Shock	
Week 8	● Hemodynamic disorders: ● Haemostasis, Thrombosis, Embolism, Infarction	
Week 9	● Neoplasia: Definition, Nomenclature, Nature of tumor-Benign, Malignant, Borderline malignancy, Low malignant potential; Incidence & Predisposition.	
Week 10	● Neoplasia (Features of malignancy) -Anaplasia, invasion, metastasis, Molecular aspect of tumour -oncoprotein, Oncogene, Tumour suppressor gene, cellular & molecular hallmarks of cancer.	

Week 11	• Neoplasia (Carcinogenesis): Direct & indirect carcinogens, clinical aspects of cancer- cancer cachexia, paraneoplastic syndrome, Grading and staging of cancer.	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	• Neoplasia (Remaining portion) Tumour immunity, laboratory diagnosis of cancer • Techniques in Cytopathology- FNAC, Pap smear, fluid cytopathology.	
2nd Quarter (April -June)		
Week 14	**Card Final Examination**	
Week 15	Feedback Class	
Week 16-17	**1st Term Examination**	
Week 18	Feedback Class	
Week 19	• Genetics: Broad classification: Single Gene Disorders, Chromosomal disorders, Complex Multigene Disorder. • Cytogenetic disorders- Down's, Turner's syndrome: Clinical features, Diagnosis • Mutation: Definition, Types, examples. • Common investigations to diagnose a case of genetic disease.	
Week 20	• Immunopathology: Definition of immunity. Types of immunity immune disorder. Hypersensitivity, Autoimmune disorder-types, immunodeficiency disorder-types & cause, Rejection of tissue transplantation	
Week 21	• Nutritional disorders: PEM, Obesity, Vitamins and Mineral deficiency, Childhood tumour.	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
Week 23	• Environment: hazards Effects of tobacco & alcohol; Occupational hazards: Arsenic, Radiation.	
Week 24	• Infectious diseases- Pathogenesis and tissue changes: TB, Leprosy, Leishmaniasis, Rhinosporidiosis, Hepatic amoebiasis, Hydatid cyst. • Introduction and Terminology of hematology: Haematological sample collection, Preservation and processing. Constituents of blood and bone marrow, erythropoiesis, Types of Hb and RBC indices, PBF. CBC.	
Week 25	• RBC disorder: Anaemia, Classification-etiological and morphological, etiopathogenesis and laboratory	

	diagnosis of Iron deficiency anaemia and Megaloblastic anaemia.	
Week 26	● Haemolytic anaemias: Classification: Extra corpuscular and intra corpuscular haemolysis, etiopathogenesis and laboratory diagnosis of Thalassemia, Sickle cell anaemia.	
3rd Quarter (July - September)		
Week 27	● Pancytopenia: Aplastic anaemia- etiopathogenesis and laboratory diagnosis. ● Reactive WBC proliferations- Neutrophil leucocytosis, Leukopenia, Neutrophilia, Eosinophilia, Lymphocytosis.	
Week 28	● Blood grouping-Types, Blood products, Screening tests, Hazards of blood transfusion ● Bleeding disorders: Classification, ITP- causes, lab diagnosis	
Week 29	● Bleeding disorders: Hemophilia ● Hematology instrument	
Week 30	● Report analysis and interpretation	
Week 31	**Card Final Examination**	
Week 32-33	**2nd Term Examination**	
Week 34	Feedback Class	
Week 35-39	Review Class	
4th Quarter (October-December)		
Week 40	Review Class	
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

❖ Small Group Teaching (Tutorial & Practical)

Time Frame	Topics	Teaching Hours
1st Quarter (January-March)		
Week 1	● Introduction of pathology, Histo-cytopathological sample collections, preservation, transport and processing of pathological samples. An outline of autopsy. ● Cellular adaptations: definitions, features and clinical significance.	● 1 class/week 12 to 2.30 pm
Week 2	● Cell injury: Definitions, injurious agents, types, reversible cell injury-features and morphology, ● Mechanism of hypoxic injury and Free radicals.	
Week 3	● Cell injury: Irreversible cell injury-Necrosis & Apoptosis-features, example. ● Intracellular accumulation, calcification, Cellular Aging.	
Week 4	● Inflammation: Definition, causes, cardinal signs, types, acute inflammation- cellular and vascular events; Chemotaxis, Phagocytosis.	
Week 5	● Acute inflammation: Chemical mediators, morphological patterns of acute inflammation, outcome of acute inflammation, Systemic effects of inflammation. ● Chronic inflammation: Definition, cells of chronic inflammation, Granulomatous inflammation – causes, examples and mechanism.	
Week 6	● Healing and repair: Definition, types, mechanism, factors affecting wound healing, complications of wound healing.	
Week 7	● Hemodynamic disorders: Edema, effusions, Electrolyte disorders, Hyperemia, congestion, Haemorrhage, Shock	
Week 8	● Hemodynamic disorders: ● Haemostasis, Thrombosis, Embolism, Infarction	
Week 9	● Neoplasia: Definition, Nomenclature, Nature of tumor-Benign, Malignant, Borderline malignancy, Low malignant potential; Incidence & Predisposition.	
Week 10	● Neoplasia (Features of malignancy) -Anaplasia, invasion, metastasis, Molecular aspect of tumour -oncoprotein, Oncogene, Tumour suppressor gene, cellular & molecular hallmarks of cancer.	

Week 11	• Neoplasia (Carcinogenesis): Direct & indirect carcinogens, clinical aspects of cancer- cancer cachexia, paraneoplastic syndrome, Grading and staging of cancer.	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	• Neoplasia (Remaining portion) Tumour immunity, laboratory diagnosis of cancer • Techniques in Cytopathology- FNAC, Pap smear, fluid cytopathology.	
2nd Quarter (April -June)		
Week 14	**Card Final Examination**	
Week 15	Feedback Class	
Week 16-17	**1st Term Examination**	
Week 18	Feedback Class	
Week 19	• Genetics: Broad classification: Single Gene Disorders, Chromosomal disorders, Complex Multigene Disorder. • Cytogenetic disorders- Down's, Turner's syndrome: Clinical features, Diagnosis • Mutation: Definition, Types, examples. • Common investigations to diagnose a case of genetic disease.	
Week 20	• Immunopathology: Definition of immunity. Types of immunity immune disorder. Hypersensitivity, Autoimmune disorder-types, immunodeficiency disorder-types & cause, Rejection of tissue transplantation	
Week 21	• Nutritional disorders: PEM, Obesity, Vitamins and Mineral deficiency, Childhood tumour.	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
Week 23	• Environment: hazards Effects of tobacco & alcohol; Occupational hazards: Arsenic, Radiation.	
Week 24	• Infectious diseases- Pathogenesis and tissue changes: TB, Leprosy, Leishmaniasis, Rhinosporidiosis, Hepatic amoebiasis, Hydatid cyst. • Introduction and Terminology of hematology:Haematological sample collection, Preservation and processing. Constituents of blood and bone marrow, erythropoiesis, Types of Hb and RBC indices, PBF. CBC.	
Week 25	• RBC disorder: Anaemia, Classification-etiological and morphological, etiopathogenesis and laboratory	

	diagnosis of Iron deficiency anaemia and Megaloblastic anaemia.	
Week 26	● Haemolytic anaemias: Classification: Extra corpuscular and intra corpuscular haemolysis, etiopathogenesis and laboratory diagnosis of Thalassemia, Sickle cell anaemia.	
3rd Quarter (July-September)		
Week 27	● Pancytopenia: Aplastic anaemia- etiopathogenesis and laboratory diagnosis. ● Reactive WBC proliferations- Neutrophil leucocytosis, Leukopenia, Neutrophilia, Eosinophilia, Lymphocytosis.	
Week 28	● Blood grouping-Types, Blood products, Screening tests, Hazards of blood transfusion ● Bleeding disorders: Classification, ITP- causes, lab diagnosis	
Week 29	● Bleeding disorders: Hemophilia ● Hematology instrument	
Week 30	● Report analysis and interpretation	
Week 31	**Card Final Examination**	
Week 32-33	**2nd Term Examination**	
Week 34	Feedback Class	
Week 35-39	Review Class	
4th Quarter (October-December)		
Week 40	Review Class	
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

Microbiology

❖ Lecture

Time frame	Topics	Teaching hours
1st Quarter (January-March)		
Week 1	**Introduction of Microbiology:** ● Brief historical background ● Branches of Microbiology ● Legends in the field of Microbiology ● Koch's postulate, molecular Koch's postulate, the limitations and new adjuncts. ● Concept of medical biotechnology in relation to Microbiology ● Importance and scope of microbiology in medical science.	● Wednesday 8 to 9 am
Week 2	**Bacterial cell:** ● Prokaryotic and Eukaryotic cells with examples ● Different structures of bacterial cell and their functions.	
Week 3	**Bacterial cell:** ● Brief description of cell wall of Gram positive and Gram-negative bacteria. ● Spores structure and clinical importance. ● L-forms, protoplast, spheroplast, Clinical importance of L-form.	
Week 4	**Bacterial classification and staining:** ● Nomenclature of Bacteria. ● Classification by staining, morphology, Oxygen requirement, temperature requirement.	
Week 5	**Bacterial classification and staining:** ● Staining- Theoretical basis and clinical significance of Gram stain and Z-N stain, Albert stain, Auramin-Rhodamine stain.	
Week 6	**Nutrition and Cultivation of bacteria:** ● Nutritional requirement for the growth of bacteria. ● Growth curve: phases with clinical significance ● Common bacteriological media: classification and uses.	
Week 7	**Sterilization and Disinfection:** ● Definition, classification and applications of sterilization, disinfection and antisepsis ● Methods of sterilizations: details of autoclaving, hot air oven and chemical methods.	
Week 8	**Sterilization and Disinfection:** ● Sterilization of medical equipment and culture	

	media. ● Disinfection of body fluid spillage and equipment. ● Preparation of disinfectants and their use.	
Week 9	**Bacterial Genetics:** ● Bacterial genome, DNA, chromosome, plasmid, transpozon etc. ● Gene transfer in bacteria. ● Bacterial DNA replication. ● DNA recombination, principles of Cloning and genetic engineering.	
Week 10	**Pathogenesis of bacterial diseases:** ● Transmission of bacterial agents. ● Virulence factors: e.g. antigens, toxins, enzymes, invasiveness and their role in pathogenesis of diseases with examples.	
Week 11	**Antimicrobial agents:** ● Definition of antibiotics, antimicrobial agents, chemotherapeutics, bacteriostatic, bactericidal, synergism, antagonism, selective toxicity etc. ● Classification of antimicrobial agents ● Mechanism of action on bacteria with examples	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
Week 13	**Antimicrobial agents:** ● Drug resistance: origin, mechanism, transmission and prevention ● Indication of combination of antibiotics in bacterial infection ● Hazards of indiscriminate use of antibiotics	
2nd Quarter (April-June)		
Week 14	**Antimicrobial agents:** ● Defining MDR, XDR and PDR bacteria. ● Definition and importance of ESBL, MBL, MRSA, VRSA, VRE. ● Definition and importance of Biofilm.	
Week 15	**Card Final Examination**	
Week 16	Feedback Class	
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
4th Quarter (October-December)		
Week 41	**Preparatory Leave**	
Week 42	**Durga Puja (17.10.26–22.10.26)**	
Week 43	**Preparatory Leave**	
Week 44-52	**2nd Professional Examination & Result**	
****Week 49-50**	**Sports and cultural week****	

	(02.12.26–11.12.26)	

❖ **<u>Small Group Teaching</u> (Tutorials/ practical)**

Time frame	Topics		Teaching hours
1st Quarter (January - March)			
Week 1	**Bacterial cell** ● Prokaryotic and Eukaryotic cells with examples ● Different structures of bacterial cell and their functions.	**Practical:** ● Gram Stain	● One class/week 12 to 2.30 pm
Week 2	**Bacterial cell** ● Brief description of cell wall of Gram positive and Gram-negative bacteria. ● Spores structure and clinical importance. ● L-forms, protoplast, spheroplast, Clinical importance of L-form.	**Practical:** ● Gram Stain	
Week 3	**Bacterial Classification and staining:** ● Nomenclature of Bacteria. ● Classification by staining, morphology, Oxygen requirement, temperature requirement.	**Practical:** ● Gram Stain	
Week 4	**Bacterial classification and staining:** ● Staining- Theoretical basis and clinical significance of Gram stain and Z-N stain, Albert stain, Auramin-Rhodamine stain.	**Practical:** ● Gram Stain	
Week 5	**Sterilization and disinfection:** ● Definition, classification and applications of sterilization, disinfection	**Practical:** ● Z-N stain	

	and antisepsis ● Methods of sterilizations: details of autoclaving, hot air oven and chemical methods.		
Week 6	**Sterilization and disinfection:** ● Sterilization of medical equipment and culture media. ● Disinfection of body fluid spillage and equipment. ● Preparation of disinfectants and their use.	**Practical**: ● Z-N stain	
Week 7	**Antimicrobial agents:** ● Definition of antibiotics, antimicrobial agents, chemotherapeutics, bacteriostatic, bactericidal, synergism, antagonism, selective toxicity etc. ● Classification of antimicrobial agents ● Mechanism of action on bacteria with examples ● Drug resistance: origin, mechanism, transmission and prevention ● Indication of combination of antibiotics in bacterial infection ● Hazards of indiscriminate use of antibiotics ● Defining MDR, XDR and PDR bacteria. ● Definition and importance of ESBL, MBL, MRSA, VRSA, VRE. ● Biofilm.	**Practical:** ● Albert stain	
Week 8	**Practical:**	**Practical:**	

	● Auramine-Rhodamine stain	● Demonstration of culture media, Nutrient agar, Blood agar.	
Week 9	**Practical**: ● Demonstration of Culture media: Chocolate agar, MacConkey's agar	**Practical**: ● Demonstration of Culture media: Lowenstein Jensen media, Robertson's cooked media	
Week 10	**Practical:** ● Demonstration of Culture media: Blood culture media, Transport media	**Practical:** ● Overview of culture media	
Week 11	**Practical:** ● Demonstration of inoculation and incubation	**Practical:** ● Demonstration of plate reading	
Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**		
Week 13-14	Review Class		
Week 15	**Card Final**		
Week 16	Feedback Class		
Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**		
4th Quarter (October - December)			
Week 41	**Preparatory Leave**		
Week 42	**Durga Puja (17.10.26–22.10.26)**		
Week 43	**Preparatory Leave**		
Week 44-52	**2nd Professional Examination & Result**		
****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**		

Medicine
&
Allied Subjects

❖ Lectures

Subject	Time frame	Topics	Teaching hours
1st Quarter (January-March)			
Medicine	Week 1	• Overview of Medicine as a discipline and subject	• Thursday 8 to 9 am
	Week 2	• Doctor-patient relationship	
	Week 3	• Medical ethics & patient's safety	
	Week 4	• General concept of pain, chest pain and abdominal pain	
	Week 5	• Fever	
	Week 6	• Dyspnoea	
	Week 7	• Cough, expectoration & haemoptysis	
	Week 8	• Anorexia, nausea, vomiting,	
	Week 9	• Haematemesis • Melaena • Haematochezia	
	Week 10	• Diarrhoea, Dysentery & constipation	
	Week 11	• Enlargement of lymph nodes, liver & spleen	
	Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
	Week 13	• Joint pain, neck pain and back ache	
2nd Quarter (April -June)			
	Week 14	• Oedema & ascites	
	Week 15	• Jaundice	
	Week 16-17	**Para-clinical 1st term examination**	
	Week 18	• Syncope & seizures	
	Week 19	• Fainting & palpitations	
	Week 20	• Headache & vertigo	
	Week 21	• Paralysis,	
	Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
	Week 23	• Movement disorders & disorders of gait	
	Week 24	• Weight loss & weight gain	
	Week 25	• Coma & other disturbances of consciousness	
	Week 26	• Common urinary symptoms including anuria, oliguria, nocturia, polyuria, incontinence & enuresis	

3rd Quarter (July-September)			
	Week 27	• Bleeding disorder	
	Week 28	• Anaemia	
Psychiatry	Week 29	• Communication skills	• Thursday 8 to 9 am
	Week 30	• Behavioral science	
Paediatrics	Week 31	• Introduction to Paediatrics	• Thursday 8 to 9 am
	Week 32-33	**Para-clinical 2nd term examination**	
	Week 34	• MDG	
	Week 35	• IMCI	
	Week 36	• National programs	
	Week 37	Review class	
	Week 38	**Medicine Term Examination**	
	Week 39	Feedback Class	
4th Quarter (October-December)			
	Week 40	Review Class	
	Week 41	**Preparatory Leave**	
	Week 42	**Durga Puja (17.10.26–22.10.26)**	
	Week 43	**Preparatory Leave**	
	Week 44-52	**2nd Professional Examination & Result**	
	****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

❖ Small Group Teaching

All the groups should be rotated accordingly in departments over the year

Time frame	Category	Teaching hours
Week 1	Tutorial	• Saturday to Tuesday 7 am to 8 am • At ward tutorial room- during clinical placement
Week 2	Tutorial	
Week 3	Tutorial	
Week 4	Tutorial	
Week 5	Tutorial	
Week 6	Tutorial	
Week 7	Tutorial	
Week 8	Problem Based Learning	
Week 9	Problem Based Learning	
Week 10	Problem Based Learning	
Week 11	Problem Based Learning	
Week 12	Practical Demonstration & Instrumental demonstration	
Week 13	Practical Demonstration & Instrumental demonstration	
Week 14	Skill Lab	

❖ Clinical/ Bedside teaching

This will be done according to the **ward placement** schedule. Morning classes are from 9.00am -11.00am and evening classes are from 7.00pm-9.00pm daily.

- Internal Medicine: 14 weeks
- Paediatrics: 4 weeks
- Physical Medicine: 2 weeks
- Transfusion Medicine: 1 week

Due emphasis should be given on the followings:

- ITEM completion
- Card completion
- Ward final examination (OSCE)

Surgery
&
Allied Subjects

❖ Lecture

Subject	Time frame	Topics	Teaching hours
1st Quarter (January-March)			
Surgery	Week 1	• History, evolution and scope of surgery	• Monday 8 to 9 am • Thursday 11am to 12 pm
	Week 2	• History, evolution and scope of surgery	
	Week 3	• Approach to surgical Patient	
	Week 4	• Surgical diagnostic process and techniques	
	Week 5	• Surgical diagnostic process and techniques	
	Week 6	• Surgical Infection (Boil, Furuncle, Abscess, Carbuncle, cellulitis)	
	Week 7	• Surgical Infection (Boil, Furuncle, Abscess, Carbuncle, cellulitis)	
	Week 8	• Septicemia	
	Week 9	• Sinus, fistula, cysts	
	Week 10	• Complication of Peptic Ulcer, (perforation, Pyloric stenosis)	
	Week 11	• Cholelithiasis (Causes & complication)	
	Week 12	**Eid-Ul-Fitr (18.03.26-25.03.26)**	
	Week 13	• Cholelithiasis (Causes & complication	
2nd Quarter (April -June)			
	Week 14	• Cholecystitis (acute & chronic)	
	Week 15	• Cholecystitis (acute & chronic)	
	Week 16-17	**Para-clinical 1st Term Examination**	
	Week 18	• Wounds (classification and management)	
	Week 19	• Wounds (classification and management)	
	Week 20	• Ulcers, pressure sores	
	Week 21	• Groin hernias	
	Week 22	**Eid–Ul-Adha (25.05.26–01.06.26)**	
	Week 23	• Groin hernias	
	Week 24	• Haemorrhage	
	Week 25	• Shock	
	Week 26	• Shock	
3rd Quarter (July-September)			

	Week 27	• Upper G.I. Tract bleeding	
	Week 28	• Upper G.I. Tract bleeding	
	Week 29	• Appendicitis	
	Week 30	• Intestinal obstruction	
	Week 31	• Intestinal obstruction	
	Week 32-33	**Para-clinical 2nd Term Examination**	
	Week 34	• Pancreatitis (acute pancreatitis)	
	Week 35	• Pancreatitis (Chronic pancreatitis)	
	Week 36-37	Review Class	
	Week 38	**Surgery Term Examination**	
	Week 39	Feedback Class	
4th Quarter (October-December)			
	Week 40	Review Class	
	Week 41	**Preparatory Leave**	
	Week 42	**Durga Puja (17.10.26–22.10.26)**	
	Week 43	**Preparatory Leave**	
	Week 44-52	**2nd Professional Examination & Result**	
	****Week 49-50**	**Sports and cultural week** (02.12.26–11.12.26)**	

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Week 9	Problem Based Learning	
Week 10	Problem Based Learning	
Week 11	Problem Based Learning	
Week 12	Practical Demonstration & Instrumental demonstration	
Week 13	Practical Demonstration & Instrumental demonstration	
Week 14	Practical Demonstration & Instrumental demonstration	
Week 15	Skill Lab	

❖ Clinical/ Bedside teaching

This will be done according to the **ward placement** schedule. Morning classes are from 9.00am -11.00am and evening classes are from 7.00pm-9.00pm daily.

- Surgery: 15 weeks
- Orthopaedics: 2 weeks
- Radiology: 1 week
- Anesthesia: 1 week
- Dentistry: 1 week

Due emphasis should be given on the followings

- ITEM completion
- Card completion
- Ward final examination (OSCE)