



*Quality
with
Morality*

COURSE GUIDE

PHASE - III

SESSION 2022-2023

10th Batch



**CHATTAGRAM INTERNATIONAL
MEDICAL COLLEGE (CIMC)**

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Course Guide

Phase-III (MBBS 10th Batch)



Chattagram International Medical College
206/1, Haji Chand Meah Road, Shamserpara, Chandgaon,
Chittagong, Bangladesh

Chattagram International Medical College

Quality with Morality

Vision:

To be a center of excellence for transformative experience with high moral and professional standards for clinicians, educators and researchers for the benefit of humanity.

Mission:

- To provide quality and affordable health care facilities and services to the community.**
- To deliver patient-centered & technologically advanced medical education and clinical care.**
- To establish and develop a world-class, self-reliant institute for imparting Medical & other Health Science education.**
- To nurture a research-driven academic environment that empowers students and faculty to solve global health challenges.**

PREFACE

I am delighted to welcome 10th batch MBBS students to 4th year (phase-III). CIMC is one of the most prominent medical colleges in private sector in Bangladesh. Our mission is to achieve excellence in medical education, research and health care to the benefit of our community.

Welcome to a journey of profound significance, where the pursuit of knowledge intersects with the art of healing. As you embark on your medical education, remember that medical science is not just a field of science; it is a commitment to humanity. With each lesson, you are not merely acquiring facts but gaining the skills to make difference in people's lives.

In the corridor of this institution, you will encounter challenges that will test your resilience and compassion. Embrace these moments, for they shape not only your medical expertise but also the empathy that defines a true healer.

When the difficulty comes, remember you are here because you are worthy, because someone entrusted that one day you will be capable of taking care of the world that walks through your front door.

Collaboration is the key in the medical world. Cherish the opportunity to learn from your peers, teachers and most importantly from your patients. Your journey is not solitary; it is a shared expedition towards a common goal-better health for all. So listen attentively, ask questions boldly and absorb the wealth of knowledge that surrounds you.

In this field, the days are long but the years are short. Don't forget to enjoy them. Don't forget to embrace every single day you are living this honor and privilege. I'll be right here, witnessing this amazing journey you're about to embark on.

I hope you will seize every opportunity to broaden your intellectual horizons, develop a greater sense of social responsibility and achieve a balanced development in the moral, intellectual, physical, social and aesthetic aspects of your life.

With best wishes.

(Professor Dr. Mohammed Parvez Iqbal Sharif)

Phase III Coordinator & Head

Department of Community Medicine & Public Health

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Basic Information About MBBS Course	
Name of the course: Bachelor of Medicine & Bachelor of Surgery (MBBS)	
Duration: MBBS course comprises of 5 Years, followed by logbook based rotatory internship for one year	
Course structure and duration: The MBBS course is divided into four phases	

Phase	Duration	Subjects	Professional Examination
1st phase	1½ year	• Anatomy • Physiology • Biochemistry	First Professional MBBS
2nd phase	1 year	• Community Medicine • Forensic Medicine	Second Professional MBBS
3rd phase	1 year	• Pharmacology & Therapeutics • Pathology • Microbiology	Third Professional MBBS
4th phase	1½ year	• Medicine & Allied subjects • Surgery & Allied subjects • Obstetrics and Gynecology	Final Professional MBBS

3rd Phase									
Subject	Lecture (in hours)	Tutorial	Practical	Others	Formative Exam		Summative		Total
					Prepa ratory	Exam time	Prepa ratory	Exam time	
Pharmacology & Therapeutics	100	30	50	Clinical Pharmacology	10 days	15 days	10 days	15 days	200
Pathology	100	100	28						228
Microbiology	100	45	45						190
Total	300	175	123	20					618
(Time for exam, preparatory leave and formative and summative assessment is common for all subjects of the phase)									

Third Professional Examination					
Subject	Written Exam marks	Structured Oral Exam marks	Practical Exam marks	Formative Exam marks	Total Marks
Pharmacology & Therapeutics	90	100	100	10	300
Pathology	90	100	100	10	300
Microbiology	90	100	100	10	300
Total					900

Department of Community Medicine and Public Health

Faculty Members

Dr.Md.Parvez Iqbal Sharif
Associate Professor& Head of the Department
Dr. Fahmida Shammi
Assistant Professor
Lecturer-1 and 2
Academic Calendar

Term & Duration	Classes	Subjects	Term Examination
1st Term	Lecture Tutorial Practical	1. Concept of Public Health, Community Medicine, Health and Diseases 2. HFA. Primary Health Care, Universal Health Coverage and existing National Health Programmes, MDGs & SDGs 3. Behavioral Science 4. Health Communication & Health Education 5. Medical Entomology 6. Principles of Epidemiology 7. Research Methodology and Biostatistics 8. Immunity , Immunization and Disinfection 9. Public Health Nutrition	May'26
2nd Term	Lecture Tutorial Practical	10. Environment and Health 11. Public Health Administration and Management 12. Epidemiology of CD and NCD 13. MCH-FP and Demography 14. School Health Service 15. Occupational Health	September'26
	Revision classes + Preparatory leave		
	3rd Professional MBBS Examination		

Distribution of teaching - learning hours

Lecture	Tutorial	Practical	Integrated Teaching and Generic Topic	Total	Formative Exam		Summative exam	
					Preparatory leave	Exam time	Preparatory leave	Exam time
110 hrs	155 hrs	COME (community based medical education): 30 days (10 days day visit + 10 days RFST+ 10 days study tour)	18 hrs + 3hrs	265 hrs + 30 days	07 days	12 days	07 days	12 days
(Time for exam. preparatory leave and formative and summative assessment is common for all subjects of the phase)								

3rd Professional Examination : Assessment Systems and mark distribution

Components	Marks	Total Marks
Written Examination		100
MCQ (50% Multiple True and False + 50% Single Base Answer)	20	
SEQ+SAQ (25% Structured Eassy Question+ 75% Short Answer Question)	70	
Formative	10	
Practical Examination		100
Conventional Practical/OSPE	50	
RFST, Survey Report + Study tour report	20+ 10	
Report on day visit	20	
Structured Oral Examination		100
Grand Total		300

Summary of the Community Medicine and Public Health Academic Programme

Time Schedule			
	Topic	Lecture (In Hrs)	Tutorial (In Hrs)
1	Concept of Public Health, CM, Health and Diseases	10	10
2	Behavioral Science	06	10
3	Health Communication & Health Education	04	10
4	Medical Entomology	04	06
5	Biostatistics	04	08
6	Immunity , Immunization and Disinfection	04	08
7	School Health Service	04	04
8	Public Health Administration and Management	03	04
	1st term sub total	39	60
9	Environment and Health	10	12
10	Public Health Nutrition	08	08
11	Principles of Epidemiology	10	16
12	Epidemiology of CD and NCD	25	36
13	MCH-FP and Demography	09	16
14	Occupational Health	04	06
15	HFA. Primary Health Care and existing National Health Programmes, MDGs	05	06
	2nd term sub total	71	100
	Grand Total	110	160

Book List of Community Medicine

Sl. No	Title	Author's Name	Edition
1	Rashid, Kabir, Hyder's Textbook Of Community Medicine And Public Health	Rahmam, Mahmudur	5th
2	Text Book Of Preventive And Social Medicine	Park, K	23 RD
3	Preventive And Social Medicine: A Comprehensive Textbook	Mathur, J S	1st
4	Essentials of Biostatistics	Prof. Z. H. Sharif	1/ed
5	Behavioral science	Prof.Md. Hossain	
6	Essentials Of Community Medicine Practical	Mahabalaraju, D K	1st
7	Mahajon's Methods in Biostatistics	Arunbhadon	8th

1st Term Lesson Plan

Date	Day	Time	Topic	Teacher
Orientation on 15th January				
January 18	Sunday	8-9	Class on Generic Topic	Dr. Fahmida Shammi
January 21	Wednesday		Sports and Cultural Week	
January 25	Sunday	8-9	Class on Generic Topic	Dr. Fahmida Shammi
January 28	Wednesday	11.30-12.30	• Concept of Public Health and Community Medicine • Concept of Health and Disease	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Classification of Arthropods of medical importance • Lifecycle of mosquito, sand fly	Dr.Fahmida Shammi
		1.30-2.30	• Concept of Behavior, Behavioral science,	Group A- Lecturer 1 Group B- Lecturer 2
February 1	Sunday	8-9	• Arthropod-borne diseases.	Dr.Fahmida Shammi
		11.30-12.30	• Common Health and Social problems • Health Team Concept	Dr.Parvez Iqbal Sharif
		12.30-1.30	Psychology, Sociology • Society, Family, Culture	Group A- Lecturer 1 Group B- Lecturer 2
February 4	Wednesday	11.30-2.30	• Integrated Teaching	Dr.Parvez Iqbal Sharif Dr.Fahmida Shammi Group A- Lecturer 1 Group B- Lecturer 2
February 8	Sunday	8-9	• Organizational structure for the delivery of PHC • Goal and indicators of HFA by the year of 2000 AD	Dr.Fahmida Shammi

			• Levels of health care service delivery • Concept, purpose and scope, evolution and diseases under IHR-2005	
		11.30-12.30	• Changing concepts of Public Health and Health • Natural history of disease • Indicators and Determinants of Health	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Motive and Motivation leadership • Personality and IQ	Group A- Lecturer 1 Group B- Lecturer 2
February 11	Wednesday	11.30-12.30	• Integrated Teaching	Dr.Parvez Iqbal Sharif Dr.Fahmida Shammi Group A- Lecturer 1 Group B- Lecturer 2
		12.30-1.30		
		1.30-2.30		
February 15	Sunday	8-9	Review	Dr.Fahmida Shammi
		11.30-12.30	• Prevention and Intervention of Diseases • Characteristics of Ideal Health Care	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Important National organizations. • Important International health organizations: WHO, UNICEF, RED CRESCENT, ICCDRB, CARE etc.	Group A- Lecturer 1 Group B- Lecturer 2
February 18	Wednesday	11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review	Dr.Fahmida Shammi
		1.30-2.30	• Perception, cognition, learning, motivation, emotion, attitude	Group A- Lecturer 1 Group B- Lecturer 2
February 22	Sunday	8-9	Item	Dr.Fahmida Shammi
		11.30-12.30	• Definition of research	Dr.Parvez Iqbal Sharif

			• Importance of research • Types of research design • Development and steps of research protocol •Formulation of research objective-general and specific	
		12.30-1.30	• Classification of Arthropods of medical importance • Lifecycle of mosquito, sand fly • Arthropod-borne diseases.	Group A- Lecturer 1 Group B- Lecturer 2
February 25	Wednesday	11.30-12.30	• Preparation of research questionnaire • Different methods of data collection • Definition and difference of population and sample • Calculation of sample size, types of sampling • Preparation of report writing	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Principles of Vector/Arthropod control measures • Insecticides	Dr.Fahmida Shammi
		1.30-2.30	Item	Group A- Lecturer 1 Group B- Lecturer 2
March				
March 1	Sunday	8-9	Review	Dr.Fahmida Shammi
		11.30-12.30	Integrated Teaching	Dr.Parvez Iqbal Sharif
		12.30-2.30	Integrated Teaching	Group A- Lecturer 1 Group B- Lecturer 2
March 4	Wednesday	11.30-12.30	• Introduction to Bio-statistics • Uses of Bio-statistics • Vital statistics • Data and Variable • Methods and Tools of data collection	Dr.Parvez Iqbal Sharif

		12.30-1.30	Item	Dr.Fahmida Shammi
		1.30-2.30	• Definition of communication • Classification of communication • Functions of communication • Elements of communication • Barriers of communication • Media and methods of communication	Group A- Lecturer 1 Group B- Lecturer 2
March 8	Sunday	8-9	• Classification of epidemiological studies • Description of descriptive and analytical studies • Characteristics of experimental studies • Difference between cross-sectional and longitudinal; cohort and case-control studies	Dr.Fahmida Shammi
		11.30-12.30	• Interpretation of data • Analysis and Presentation of data • Measures of central tendency • Measures of dispersion • Normal distribution curve.	Dr.Parvez Iqbal Sharif
		12.30-2.30	• Definition of health education • Objectives • Contents • Principles • Approaches • Stages of adoption of a new idea	Group A- Lecturer 1 Group B- Lecturer 2
March 11	Wednesday	11.30-12.30	• Health economics	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review	Dr.Fahmida Shammi
		1.30-2.30	Item	Group A- Lecturer 1 Group B- Lecturer 2

March 15	Sunday	8-9	Generic Class	Dr.Fahmida Shammi
		11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-2.30	Review	Group A- Lecturer 1 Group B- Lecturer 2
March 18	Wednesday	Eid Ul Fitr Holiday		
March 22	Sunday	Eid Ul Fitr Holiday		
March 25	Wednesday	11.30-12.30	Review	Dr.Parvez Iqbal Sharif
		12.30-1.30	Item	Dr.Fahmida Shammi
		1.30-2.30	Review	Group A- Lecturer 1 Group B- Lecturer 2
March 29	Sunday	8-9	• Modes of transmission of diseases • Interruption of modes of disease transmission	Dr. Fahmida Shammi
		11.30-12.30	• Herd immunity • EPI and NID • Cold chain • Left out and drop out	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Assessment of nutritional status • Calorie requirements of different groups • Food borne, milk borne diseases and food toxins	Group A- Lecturer 1 Group B- Lecturer 2
April				
April 1	Wednesday	11.30-12.30	• Immunization • Immunizing agents • Immunization schedule (EPI schedule) •Adverse Events following Immunization	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Steps of investigations of an epidemic Outbreak • Definition, classification, types and uses of screening specificity, sensitivity, validity, reliability	Dr.Fahmida Shammi

		1.30-2.30	• Types of foods and its sources • Balanced diet • Protein Energy Malnutrition (PEM) • Important Vitamins and their deficiency diseases. • Deficiency disorder of Important Minerals and trace elements	Group A- Lecturer 1 Group B- Lecturer 2
April 5	Sunday	8-9	• Criteria of a susceptible host • Definition and explanation of community diagnosis and community treatment	Dr.Fahmida Shammi
		11.30-12.30	• Disinfection	Dr.Parvez Iqbal Sharif
		12.30-1230	• Pasteurization • Food adulteration, additives and fortification • Humanization of cow's milk	Group A- Lecturer 1 Group B- Lecturer 2
April 8	Wednesday	11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review	Dr.Fahmida Shammi
		1.30-2.30	Review	Group A- Lecturer 1 Group B- Lecturer 2
April 12	Sunday	8-9	Item	Dr.Fahmida Shammi
		11.30-12.30	Integrated Teaching	Dr.Parvez Iqbal Sharif
		12.30-2.30	Integrated Teaching	Group A- Lecturer 1 Group B- Lecturer 2
April 15	Wednesday	11.30-12.30	Review Class	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review Class	Dr.Fahmida Shammi
		1.30-2.30	Item	Group A- Lecturer 1 Group B- Lecturer 2
April 19	Sunday	8-9	Question Bank Solve	Dr.Fahmida Shammi
		11.30-12.30	Question Bank Solve	Dr.Parvez Iqbal Sharif
		12.30-2.30	Question Bank Solve	Group A- Lecturer 1 Group B- Lecturer 2

April 22	Wednesday	11.30-12.30	Integrated Teaching	Dr.Parvez Iqbal Sharif
		12.30-1.30		Dr.Fahmida Shammi
		1.30-2.30		Group A- Lecturer 1 Group B- Lecturer 2
April 26	Sunday	8-9	Card-1 Final	Dr.Fahmida Shammi
		11.30-12.30	Card-1 Final	Dr.Parvez Iqbal Sharif
		12.30-2.30	Card-1 Final	Group A- Lecturer 1 Group B- Lecturer 2
April 29	Wednesday	11.30-12.30	Review Class	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review Class	Dr.Fahmida Shammi
		1.30-2.30	Review Class	Group A- Lecturer 1 Group B- Lecturer 2
May				
May 4	Sunday		1 st Term Exam and Preparatory Leave	
May 7	Wednesday			
May 10	Sunday		Buddha Purnima	
May 26-31	Wednesday		Eid ul Adha	

2nd term lesson plan

Date	Day	Time	Topic	Teacher
June				
June3	Wednesday	11.30-12.30	• IMR, MMR • High risk mothers and at-risk child • Care of under-5 children, LBW • Antenatal, intranatal and postnatal care, advices and investigations	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Occupational Health and its objectives • Occupational health hazards • Occupational environment	Dr.Fahmida Shammi
		1.30-2.30	• Environment and its components • Climate changes and global warming	Group A- Lecturer 1 Group B- Lecturer 2
June7	Sunday	8-9	• Occupational health hazards • Principles of prevention of occupational diseases	Dr.Fahmida Shammi
		11.30-12.30	• Concept, mention the recommended feeding practices in IYCF • Advantage and contraindication of BF	Dr.Parvez Iqbal Sharif
		12.30-2.30	• Safe and wholesome water • Sources, uses and requirement of water • Water impurities • Principles and methods of purification of water	Group A- Lecturer 1 Group B- Lecturer 2
June 10	Wednesday	11.30-12.30	• Occupational diseases • Occupational cancers • Employees benefits	Dr.Fahmida Shammi
		12.30-1.30	• Item	Dr.Parvez Iqbal Sharif
		1.30-2.30	• Water quality standards for drinking water • Water borne diseases	Group A- Lecturer 1 Group B- Lecturer 2
June 14	Sunday	8-9	• Disadvantages of formula feeding • Importance of colostrum	Dr.Parvez Iqbal Sharif
		11.30-12.30	• Review class	Dr.Fahmida Shammi
		12.30-2.30	Air and ventilation • Composition of air • Air pollutants and their sources • Indicators of air pollution • Effects of air pollution on health	Group A- Lecturer 1 Group B- Lecturer 2

June 17	Wednesday	11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	Item	Dr.Fahmida Shammi
		1.30-2.30	Air and ventilation - Methods of prevention and control of air pollution - Ventilation - Climate change and greenhouse effect Housing - Criteria of healthful housing - Housing standards - Effects of poor housing	Group A- Lecturer 1 Group B- Lecturer 2
June 21	Sunday	8-9	- Definition and difference between CD and NCD - Epidemiology and Prevention of EPI diseases	Dr.Fahmida Shammi
		11.30-12.30	- Complementary Feeding - Importance Domiciliary and institutional delivery - EMONC: Emergency Obstetric and Neonatal Care	Dr.Parvez Iqbal Sharif
		12.30-2.30	Light - Criteria of good lighting - Measurements of light - Effect of improper lighting on health Noise - Sources and properties of noise - Acceptable noise levels - Effects of noise exposure - Control measures of noise	Group A- Lecturer 1 Group B- Lecturer 2
June 24	Wednesday	11.30-12.30	Family planning Contraceptive methods (OCP, IUCD, permanent methods)	Dr.Parvez Iqbal Sharif
		12.30-1.30	Item	Dr.Fahmida Shammi
		1.30-2.30	Item	Group A- Lecturer 1 Group B- Lecturer 2
June 28	Sunday	8-9	Diarrhoeal diseases: Enteric fever, Viral-hepatitis, Helminthiasis, Food poisoning	Dr.Fahmida Shammi
		11.30-12.30	Family planning - Concept of family planning - Aims and objectives of family planning	Dr.Parvez Iqbal Sharif
		12.30-2.30	Radiation - Sources and types of radiation - Effects of radiation on health - Measures of radiation protection	Group A- Lecturer 1 Group B- Lecturer 2

July				
July 1	Wednesday	11.30-12.30	Integrated teaching	Dr.Parvez Iqbal Sharif Dr.Fahmida Shammi Group A- Lecturer 1 Group B- Lecturer 2
		12.30-1.30		
		1.30-2.30		
July 5	Sunday	8-9	Epidemiology and prevention of • Malaria • kala azar	Dr.Fahmida Shammi
		11.30-12.30	• MR with use of medication (MRM) and difference with emergency contraceptive pills • PPF and post abortion /MR/MRM family planning	Dr.Parvez Iqbal Sharif
		12.30-2.30	Disposal of solid waste • Solid waste and its sources • Methods of disposal and medical biotechnology	Group A- Lecturer 1 Group B- Lecturer 2
July 8	Wednesday	11.30-12.30	• LAM-Lactational Amenorrhea Method • Eligible and target couples, safe period • CPR,TFR, unmet need discontinuation rate • MCH based family planning	Dr.Parvez Iqbal Sharif
		12.30-1.30	Epidemiology and prevention of • Filariasis • Dengue	Dr.Fahmida Shammi
		1.30-2.30	Excreta disposal • Methods of excreta disposal • Sanitation barrier • Diseases borne by human excreta	Group A- Lecturer 1 Group B- Lecturer 2
July 12	Sunday	8-9	Epidemiology and prevention of • Yellow fever • Mumps • Leprosy	Dr.Fahmida Shammi
		11.30-12.30	• Definition of demography • Demographic processes • Demographic transition and indices	Dr.Parvez Iqbal Sharif
		12.30-2.30	• Item	Group A- Lecturer 1 Group B- Lecturer 2
July 15	Wednesday	11.30-12.30	• Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Item	Dr.Fahmida Shammi

		1.30-2.30	Disasters: Types, preparedness and Response, Management	Group A- Lecturer 1 Group B- Lecturer 2
July 19	Sunday	8-9	Epidemiology and prevention of - HTN - IHD, CVD - RF	Dr.Fahmida Shammi
		11.30-12.30	Population pyramid - Census - Fertility - GFR,TFR,FRR,NRR - Migration	Dr.Parvez Iqbal Sharif
		12.30-2.30	Item	Group A- Lecturer 1 Group B- Lecturer 2
July 22	Wednesday	11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review class	Dr.Fahmida Shammi
		1.30-2.30	Definition, Indication and Process of Planning and Planning Cycle	Group A- Lecturer 1 Group B- Lecturer 2
July 26	Sunday	8-9	Epidemiology and prevention of - Cancer - DM - Obesity	Dr.Fahmida Shammi
		11.30-12.30	Review class	Dr.Parvez Iqbal Sharif
		12.30-2.30	Definition, Functions, Principles of Management and Administration	Group A- Lecturer 1 Group B- Lecturer 2
July 29	Wednesday	11.30-12.30	Item	Dr.Parvez Iqbal Sharif
		12.30-1.30	Arsenicosis	Dr.Fahmida Shammi
		1.30-2.30	Health Care Delivery System of Bangladesh	Group A- Lecturer 1 Group B- Lecturer 2
August				
August 1-15			COME	Dr.Parvez Iqbal Sharif Dr.Fahmida Shammi Group A- Lecturer 1 Group B- Lecturer 2
August 23	Sunday	8-9	Injuries: Snake bite, Drowning, Minor injuries, poisoning, RTA	Dr.Fahmida Shammi
		11.30-12.30	- Objectives of school health services - Aspects/components of school health services	Dr. Parvez Iqbal Sharif

			• Healthful school health environment • Different types of school desk and their importance	
		12.30-2.30	• Organizational Structure of Health Care Delivery in Bangladesh including reporting, supervision, and monitoring	Group A- Lecturer 1 Group B- Lecturer 2
August 26	Wednesday	11.30-12.30	• School health clinic • Common health problems of school children • School health emergencies • Task of school health medical officer	Dr.Parvez Iqbal Sharif
		12.30-1.30	• Geriatric Health Problems	Dr.Fahmida Shammi
		1.30-2.30	• Health Care Referral System in Bangladesh • Charter of duties of different health personnel	Group A- Lecturer 1 Group B- Lecturer 2
August 30	Sunday	8-9	Card final 2	Dr.Fahmida Shammi Dr.Parvez Iqbal Sharif Group A- Lecturer 1 Group B- Lecturer 2
		11.30-12.30	Card Final 2	
		12.30-2.30	Card Final 2	
September				
September 2	Wednesday	11.30-12.30	Review Class	Dr.Parvez Iqbal Sharif
		12.30-1.30	Review Class	Dr.Fahmida Shammi
		1.30-2.30	Review Class	Group A- Lecturer 1 Group B- Lecturer 2
September 3-September 10			Preparatory Leave for 2 nd Term Examination	
September 12	2 nd Term Exam Start			

Department of Pathology

Faculty Members:

Name of the teachers	Designation
Prof. Dr. Nasrin Sultana	Professor & Head of the department
Dr. Tahmina Hossain	Assistant professor
Dr. Sarifa Anjuman	Lecturer
Dr. Tofayel Islam	Lecturer
Dr. Farhad Rahman	Lecturer

	Term 2A (Card 1B+2A)	Term 2B (Card 2B)	Total teaching hours
Lectures	37 hours	23 hours	60 hours
Tutorials	32 hours	22 hours	54 hours
Practical	17 hours	10 hours	27 hours
Total	78 hours	55 hours	141 hours

Book List (Pathology)

Text Books:

1. **Robbins & Cotran Pathologic Basis of Disease (Volume 1 & 2) - 11th edition.**
2. Pathology Illustrated (6th edition) – By Robin Reid & Fiona Roberts.
3. **de Gruchy's Clinical Haematology in Medical Practice (6th edition):**
Haematology.
4. Hoffbrand's Essential Haematology (Latest edition).
5. Essentials of Clinical Pathology by S M Kawthalkar.
6. **Pathology Practical Book by Harsh Mohan.**

MBBS Class Schedule (Pathology)

Date	Card 1B	
	Lecture	Tutorial/ Item
15/01/26 (Thursday)	Introduction to hematology , hematopoiesis, erythropoiesis, leucopoiesis.	Introduction to hematology
18/01/26 (Sunday)	WBC : TC, DC, absolute value, Leukocytosis (Neutrophilia, eosinophilia, lymphocytosis, Monocytosis), Leukopenia.	
19/01/26 (Monday)		WBC, Leukocytosis, Leukopenia Slide- Neutrophilia, eosinophilia
22/01/26 (Thursday)	Blood collection, CBC, red cell indices, Hb%, ESR, Anticoagulant, PBF, RBC Morphology & variation, bone marrow examination.	Hematopoiesis, erythropoiesis, CBC, RBC Morphology & variation Practical- Blood collection, Hb%, ESR. Slide- CBC, PBF, BM
25/01/26 (Sunday)	Acute Leukemia (AML, ALL)	
26/01/26 (Monday)		Acute leukemia Slide- ALL, AML
29/01/26 (Thursday)	Anemia (Definition, cause, classification); IDA (definition, cause, classification, C/F & Lab diagnosis), Hemolytic Anemia : Thalassemia (definition, cause, classification, C/F & Lab diagnosis), Sickle cell anemia.	Item- Hemolytic Anemia, IDA, Thalassemia.
01/02/26 (Sunday)	Chronic Leukemia (CML, CLL), Leukemoid reaction, Sub-leukemic leukemia, aleukemic leukemia, leuko-erythroid blood picture.	
02/02/26 (Monday)		Chronic Leukemia Slide- CML,CLL
05/02/26 (Thursday)	Megaloblastic anemia, Aplastic Anemia , pancytopenia (definition, cause, classification C/F & Lab diagnosis)	Megaloblastic anemia, Aplastic Anemia, pancytopenia
08/02/26	Platelet : Thrombocytopenia, Thrombocytosis,	

19/02/26 (Thursday)	Blood group and transfusion: (cross matching, reaction, blood transmissible disease, Rh incompatibility, blood transfusion products)	Blood Group and Transfusion Procedure- Blood grouping & Rh typing
22/02/26 (Sunday)	Lymphoreticular: Causes of lymphadenopathy, Morphological features,	
23/02/26 (Monday)		Lymphoreticular Slide- HL and NHL
26/02/26 (Thursday)	HL and NHL.	HL and NHL.
01/03/26 (Sunday)	Review	
02/03/26 (Monday)		Review
05/03/26 (Thursday)	Card Final 1B	

Date	Card 2A	
	Lecture	Tutorial/ Item
08/03/26 (Sunday)	Blood vessels: Vasculitis, tumors and atherosclerosis, lipid profile	
09/03/26 (Monday)		Item: Blood vessels
12/03/26 (Thursday)	Integrated teaching on Shock	
29/03/26 (Sunday)	CVS-1: Ischemic heart disease and Hypertensive heart disease, cardiac enzymes.	
30/03/26 (Monday)		Item: CVS 1
02/04/26 (Thursday)	Respiratory system 1: Congenital anomalies, Inflammatory disease.	Item: Respiratory system 1
05/04/26 (Sunday)	CVS- 2: Rheumatic heart disease, Infective endocarditis, Myocarditis, Pericarditis, Cardiomyopathy and Others.	
06/04/26 (Monday)		Item: CVS 2
09/04/26 (Thursday)	Respiratory system 2: Abscess, Pneumonia, TB, Obstructive airway diseases’.	Respiratory system 2 Practical: Tubercular granuloma
12/04/26 (Sunday)	GIT 1: Oral cavity, Salivary gland, Esophagus	
13/04/26 (Monday)		Item: GIT 1
16/04/26 (Thursday)	Respiratory system 3: Restrictive airway diseases, Pleural effusion, Lung tumors with Lab diagnosis	Respiratory system 3

19/04/26 (Sunday)	GIT 2: Polyps of GIT, Gastric carcinoma, Peptic ulcer disease	
20/04/26 (Monday)		Item: GIT 2 Practical: Polyp, Adenoma.
23/04/26 (Thursday)	Hepatobiliary 1: Acute and chronic hepatitis, Liver function test	Item- HBS 1
26/04/26 (Sunday)	GIT 3: Small intestine, Large intestine	
27/04/26 (Monday)		Item: GIT 3 Practical: Adenocarcinoma.
30/04/26 (Thursday)	Hepatobiliary 2: Liver Cirrhosis, portal hypertension, Hepatic failure	Item- HBS 2
03/05/26 (Sunday)	Hepatobiliary 3: Hepatobiliary tumors, Gall bladder	
04/05/26 (Monday)		Item: HBS 3 Slide: Chronic cholecystitis
07/05/26 (Thursday)	Review	
10 & 11/05/26 (Sun & Monday)	Card Final 2A	
May - June	Term 1	

Date	CARD 2B	
14/06/26 (Sunday)	Urinary system 1: Clinical features of renal disease, Congenital disease, Renal function test.	
15/06/26 (Monday)		Urinary system 1
18/06/26 (Thursday)	FGS 1: Cervix & Uterus	FGS 1 Slide: SCC, Teratoma
21/06/26 (Sunday)	Urinary system 2: Glomerular disease (NS & AGN), Tubular disease.	
22/06/26 (Monday)		Item: Urinary system 2 Practical: Heat coagulation test, Benedict test
25/06/26 (Thursday)	FGS 2: Ovary & Placenta	FGS 2 Slide: Dysgerminoma, Mole, Choriocarcinoma.
28/06/26 (Sunday)	Urinary system 3: Renal tumors, Diseases of urinary bladder	
29/06/26 (Monday)		Item: Urinary system 3 Slide: Renal cell carcinoma
02/07/26 (Thursday)	Breast 1: Inflammatory and fibro-cystic disease	Breast 1
05/07/26 (Sunday)	MGS: Testis, Semen analysis, Prostate	

06/07/26 (Monday)		MGS Slide: BPH, Adenocarcinoma of prostate, Seminoma
09/07/26 (Thursday)	Breast 2: Benign and malignant tumors	Item: Breast 2 Slide: Fibroadenoma, Duct cell carcinoma
12/07/26 (Sunday)	Endocrine 1: Thyroid diseases, Thyroid Function Test, Different types of thyroid tumors.	
13/07/26 (Monday)		Item: Endocrine 1 Slide: Multi-nodular goiter
16/07/26 (Thursday)	Skin: Acute & chronic dermatoses, blistering disease, tumors.	Item : Skin Slide: SCC, BCC, MM
19/07/26 (Sunday)	Endocrine 2: Diabetes mellitus, OGTT	
20/07/26 (Monday)		Item: Endocrine 2 OSPE
23/07/26 (Thursday)	Nervous system: CNS & PNS , CSF study	Item: CNS & PNS
26/07/26 (Sunday)	Bone and soft tissue tumor, Osteomyelitis	
27/07/26 (Monday)		Bone and soft tissue tumor, Osteomyelitis Slide: Leiomyoma, Osteomyelitis, Osteosarcoma
30/07/26 (Thursday)	Eye & ENT: Tumors, sinusitis, otitis media	Item: Eye, ENT, Bone and soft tissue tumor, osteomyelitis. Slide: Leiomyoma, Osteomyelitis, Osteosarcoma
	Card Final 2B	
August	RFST, Integrated teaching (Ca Cervix, AGN)	

DEPARTMENT OF PATHOLOGY

STUDENT PROFILE:

Name of the student:		PHOTO
Class Roll No.:	Batch:	
Name of the Guardian:		
Contact No. :		

No.	Name of the Item	Full Marks	Marks Obtained	Teacher's Signature	Remark
Card 1B: Hematology & Lymph node					
01	Introduction and Terminology: Haematological sample collection, Preservation and processing. Constituents of blood and bone marrow, erythropoiesis, Types of Hb and RBC indices, PBF. CBC	10			
02	RBC disorder: Anaemia, Classification-etiological and morphological, etiopathogenesis and laboratory diagnosis of Iron deficiency anaemia and Megaloblastic anaemia.	10			
03	Haemolytic anaemias: Classification: Extra corpuscular and intra corpuscular haemolysis, etiopathogenesis and laboratory diagnosis of Thalassemia, Sick cell anaemia.	10			
04	Pancytopenia, Aplastic anaemia- etiopathogenesis and laboratory diagnosis.	10			
05	Reactive WBC proliferations- Neutrophil leucocytosis, Leukopenia, Neutrophilia, Eosinophilia, Lymphocytosis	10			
06	Leukaemia and related disorders-Leukaemia, Leukomoid reaction, Subleukaemic leukaemia and Myelodysplastic syndrome	10			
07	Lymphoproliferative disorders: Lymphadenitis, Lymphoma- types, morphology of Hodgkin lymphoma and NonHodgkin lymphoma, Multiple myeloma.	10			
08	Myeloproliferative disorders: Polycythemia, Myelofibrosis	10			
09	Haemorrhagic disorders: Classification, etiopathogenesis & laboratory diagnosis of ITP, Haemophilia and DIC; Screening tests (BT, CT, APTT, Tourniquet test)	10			
10	Blood grouping-Types, Blood products, Screening tests, Hazards of blood transfusion	10			

No.	Name of the Item	Full Marks	Marks Obtained	Teacher's Signature	Remark
Card 2A: SYSTEMIC PATHOLOGY					
01.	Blood vessels: Atherosclerosis, vasculitis and tumors, Lipid profile.	10			
02.	Ischemic heart diseases, hypertensive heart diseases and cardiac enzymes	10			
03.	Congenital heart diseases, Rheumatic fever, Infective endocarditis, (Myocarditis, Pericarditis, Cardiomyopathy - Types and causes)	10			
04.	Respiratory System: Congenital diseases, Inflammatory diseases-TB, Lung abscess, Pneumonia	10			
05.	Respiratory System: COPD -Emphysema Chronic bronchitis, Bronchial asthma, Bronchiectasis, Bronchogenic carcinoma, Sputum examination	10			
06.	Urinary system: Congenital kidney diseases, clinical presentation of renal diseases, Glomerular diseases- AGN, NS.	10			
07.	Urinary system: Tubulo-interstitial diseases. pyelonephritis, Renal calculi and Renal function tests	10			
08.	Urinary system: Renal tumors & urinary bladder diseases- cystitis and urinary bladder tumors	10			
09.	GIT: Oral cavity, salivary gland-inflammation, classification of tumors (pleomorphic adenoma), Esophagus-precursor lesions, risk factors and tumors	10			
10.	Gastritis, Peptic ulcer diseases, gastric carcinoma.	10			
11.	Small and Large intestine: Congenital diseases, inflammatory bowel diseases, Polyps and ulcers of GIT, Tumors. Acute appendicitis and tumour	10			
12.	Hepatobilliary: Acute and Chronic hepatitis - Hepatitis-B & C. viral markers, liver function tests.	10			
13.	Hepatobilliary- Liver Cirrhosis, Portal hypertension, Hepatic failure & tumors.	10			
14.	Gall bladder-Calculi, aetiopathogenesis of cholecystitis, inflammation and tumors. Pancreas- Inflammation and tumors	10			

No.	Name of the Item	Full Marks	Marks Obtained	Teacher's Signature	Remark
Card 2B: SYSTEMIC PATHOLOGY					
15	Male Genital System: Testis; Semen analysis & Prostate- NHP, Tumors, PSA	10			
16	Female Genital System: Vaginal diseases- vaginitis, cyst; Cervix-cervicitis, polyps, CIN, Cervical tumors, PAP smear test	10			
17	Female Genital System: Corpus of uterus-DUB, adenomyosis, endometriosis and uterine tumors; placenta; Ovary-cysts and tumors. Pregnancy test	10			
18.	Breast- Inflammatory & fibrocystic diseases, benign & malignant tumors- epidemiology, risk and prognostic factors; Investigation protocols; IHC-ER, PR, HER-2	10			
19.	Endocrine: Thyroid- Hypo and hyperthyroidism; Thyroiditis- Hashimoto's thyroiditis, Graves' disease; Tumors- Types, Papillary carcinoma.	10			
20.	Endocrine- Diabetes mellitus, OGTT,	10			
21.	Eye & ENT: Tumor, sinusitis, Otitis media. CNS: Meningitis, brain abscess, Brain tumors, CSF examination.	10			
22.	Bones: Osteomyelitis, Bone tumors, Osteosarcoma. Joints: Rheumatoid arthritis: Soft tissue: Soft tissue tumors	10			
23	Skin: Common terms, Inflammation, Blistering diseases, Pigmented skin lesions, premalignant & malignant conditions (SCC, BCC and malignant melanoma)	10			
24	Haematopathological and chemical pathology investigations and values	10			

Summary of Performance Record:

	Attendance (%)	Term	IT	FA
Performance				
Remark				

Batch Teacher

Head of the department

Department of Microbiology

Faculty members

Dr. Md. Tipu Sultan	Professor and Head
Dr. Mohammed Sheran	Associate Professor
Dr. Taskin jahan	Assistant Professor
Dr. Kamruzzaman Wahed	Lecturer
Dr. Abul kalam Azad	Lecturer
Dr. Muhammad	Lecturer

Academic Calendar			
Term & duration	Classes	Subjects	Term Examination
1 st Term	Lecture Tutorial Practical	• General Bacteriology • Systemic Bacteriology • Immunology	
2 nd Term	Lecture Tutorial Practical	• Parasitology • Virology • Mycology • Clinical Microbiology • Molecular biology	
	Revision classes + Preparatory leave		
	3 rd professional MBBS Examination		

Consolidated teaching hours for Microbiology

Subject	Theoretical		Practical	Total
	Lecture	Tutorial		
General Bacteriology	13	07	15	35
Systemic Bacteriology	20	15	15	50
Immunology	16	04	01	21
Parasitology	17	08	06	31
Virology	14	04	01	19
Mycology	06	02	01	09
Clinical Microbiology+ Molecular Biology	14	05	06	25
Total	100	45	45	190

Teaching hour in 3rd year = 35 hours

1 st term Allotted time (106 hours)				2 nd term Allotted time (84 hours)			
Subject	Lecture hours	Tutorial hours	Practical hours	Subject	Lecture hours	Tutorial hours	Practical hours
General Bacteriology	13	07	15	Parasitology	17	08	06
Systemic Bacteriology	20	15	15	Virology	14	04	01
Immunology	16	04	01	Mycology	06	02	01
				Clinical Microbiology	14	05	06
Grand Total Hours	49	26	31		51	19	14

List of Books			
01	General bacteriology	Main Book	- Jawetz Melnick & Adelbergs Medical Microbiology (Lange) 28th Edition. - Review of Medical Microbiology and Immunology, 17e-Warren Levinson.
02	Systemic bacteriology		
03	Virology		
04	Immunology	Reference book	Kuby Immunology, 7th Edition-Judy Owen and Jenni Punt
05	Parasitology	Main Book	Parasitology: Protozoology Helminthology (13 ed.)- K. D. Chatterje.
06	Practical	Main Book	District Laboratory Practice in Tropical Countries, Part 1 and part 2-Monica Cheesbrough
07	Practical	Reference book	Mackie & McCartney Practical Medical Microbiology, 14/e- Collee



Chattagram International Medical College

Phase-III 4th year MBBS

Yearly Academic Calendar (Including lesson plan)

Department of Microbiology

Class start from.....

1 st term
• Class starts from: 15/01/2026 • 1st Card examination: Completed in 3rd year • 2nd Card examination: Systemic Bacteriology • 3rd Card examination: Immunology • Preparatory Leave: 5 days of May 2026 • 1st Term examination: 4th week of May 2026
2 nd term
• Class starts from: 1st week of June 2026 • 4th Card examination: Virology, Mycology, and Molecular Biology • 5th Card examination: Parasitology • 6th card examination:-Clinical Microbiology • Preparatory Leave: 5 days of October 2026 • 2nd Term examination: 1st week of October 2026
• Preparatory leave for 3rd Professional examination: • 3rd Professional examination:

Part -1: Lecture Class Schedule

1 st Term:-Card:01-General Bacteriology Review Class		
Name of the teacher	Day	Time
Dr. Taskin Jahan	Saturday	11.30-12.30 pm
Date	Topics	
17.01.26	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.	
17.01.26	Bacterial cell: - Prokaryotic and Eukaryotic cells with examples - Different structures of bacterial cell and their functions. - 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.	
17.01.26	Bacterial classification and staining: - Nomenclature of Bacteria. Classification by staining, morphology, Oxygen requirement, temperature requirement. - Staining- Theoretical basis and clinical significance of Gram and Z-N stain, Albert stain, Auramin-Rodamin stain - Practical on staining: Gram, Z-N staining and Albert stain	
20.01.26	Nutrition and Cultivation of bacteria: - Nutritional requirement for the growth, - Growth curve: phases with clinical significance, - Common bacteriological media: classification and uses.	
20.01.26	Host-Parasite relationship: - Terms and Definitions, Parasite and Host attributes, - Normal flora, opportunistic pathogens and their clinical importance.	
20.01.26	Pathogenesis of bacterial diseases: Transmission of bacterial agents, Virulence factors e.g. toxins, enzymes, invasiveness and their role in pathogenesis of diseases with some examples.	

1st Term:-Card:01-General Bacteriology Review Class Contd.	
Date	Topics
20.01.26	Sterilization and Disinfection: • Definition, classification and applications of sterilization, disinfection and antisepsis • Methods of sterilizations: details of autoclaving, hot air oven and chemical methods. • Sterilization of medical equipment and culture media. • Disinfection of body fluid spillage and equipment. • Preparation of disinfectants and their use.
20.01.26	Antimicrobial agents: • Definition of antibiotics, antimicrobial agents, chemotherapeutics, bacteriostatic, bacteriocidal, synergism, antagonism, selective toxicity etc. • Classification of anti-microbial 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. • Definition and importance of Biofilm

Term:-01:Card:02-Systemic Bacteriology			
Dr. Mohammad Sheran		Saturday	11.30-12.30 pm
Dr. Taskin Jahan		Tuesday	11.30-12.30 pm
Date	Topics		
24.01.26	Staphylococci: S. aureus, S. epidermidis, S. saprophyticus, Enterococcus(VRE), MRSA, VRSA.		
31.01.26	Streptococci : Group A Streptococcus, Streptococcus agalactiae and Streptococcus pneumoniae		
06.02.26	Neissreia: N. gonorrhoea, N. meningitides		
07.04.26	Corynebacterium diphtheriae		
10.02.26 & 17.02.26	Enterobacteriaceae: Classification: Salmonella, Shigella, Esch. Coli and other Enterobacteriaceae, definition and clinical significance of ESBL, MBL and NDM producing bacteria.		
24.02.26	Vibrio cholerae, Helicobacter pylori		
07.03.26	Mycobacterium: M. tuberculosis, Atypical mycobacteria and M. leprae. MDR, XDR TB		
03.03.26	Anaerobic bacteria: Clostridium: Cl. tetani, Cl. botulinum, Cl. Perfringens and other anaerobic bacteria		
10.03.26	Bacillus: B. Anthracis, B. Cereus, B. Subtilis..		
17.03.26	Spirochaetes: Treponema pallidum		
24.03.26	Important characteristics and diseases produced by: Rickettssia Haemophilus influenzae, Haemophilus ducrey, Mycoplasma, Chlamydia, Nocardia, Actinomycetes species		
31.03.26 & 18.04.26	Additional: • Streptococcus Group D • Klebsiella, Proteus , Pseudomonas: Ps. aeruginosa , Aeromonas, Plesiomonas, • Campylobacter jejuni • Bacteroides species • Clostridium deficille • Listeria • Barkholderia • G. vaginalis • Probiotics		
Systemic Bacteriology Card final probable date = 21.04.26			

1 st term:-Card: 03-Immunology		
Name of the teacher	Day	Time
Dr.Mohammed Sheran	Saturday	11.30-12.30 pm
Date	Topics	
27.01.26	Introduction: Brief historical background,Basic concepts of immunity: types and components with examples.	
03.02.26	Immune system: Organs, cells. Soluble components	
07.02.26	Antigens and Immunogens: Terms and definitions: antigen, immunogen, hapten, epitope, paratope. Criteria of immunogenicity	
14.02.26	Major histocompatibility complex (MHC/ HLA): Terms and definitions, types and distribution, clinical and biological significance.	
21.02.26 & 28.02.26	Immunoglobulins and Antibodies: - Terms and definitions, classification, structure, biological properties and functions. - Monoclonal antibodies	
14.03.26	Complements: Terms and definitions, activation, biological functions and clinical significance, deficiency disorders.	
28.03.26	Mechanisms of immune response : Antibody and cell mediated immune response.Primary and secondary immune response	
04.04.26, 11.04.26 & 25.04.26	Hypersensitivity: - Terms and definitions, classifications, mechanisms, clinical significance with examples. - Atopy, desensitization. - Tests for Type-I reaction: Patch test, RAST, serum IgE assay.	
28.04.26	Transplantation and Tumour immunity: - Terms and definitions, types and outline of prevention of graft rejection. - Tumour antigens, role in diagnosis and clinical significance. - Immunosurveillance	
02.05.26	Tolerance and Autoimmunity: Definition and classification of tolerance Terms and definitions, basic concepts and mechanism of development of autoimmuniy.	
05.05.26	Immunodeficiency disorders and immunotherapy: Classification with examples	
09.05.26	Agents of immunotherapy	
09.05.26	Immunodiagnostic tests: Terms and definitions, types and applications in diagnostic medicine Agglutination, precipitation, ELISA, Western blot test, PCR and RT-PCR.	
Immunology Card Final probable date: 12.05.26		

2nd term: Card:04 Virology, Mycology and Molecular Biology		
Name of the teacher	Day	Time
Prof. Dr.Md.Tipu Sultan	Tuesday	11.30-12.30 pm
Dr. Mohammad Sheran	Saturday	11.30-12.30 pm
(Virology)		
Date	Topics	
02.06.26	General virology: • Introduction to virology, common viral diseases in Bangladesh. Basic structure of virus Outline of viral replication • Classification, Antiviral agents	
09.06.26	Herpes viruses: • Classification, important characteristics, diseases, important clinical features,transmission, pathogenesis. • Complications, laboratory diagnosis and prevention	
16.06.26	Orthomyxo and paramyxo viruses • Important characteristics, diseases, important clinical features • transmission,pathogenesis, complications, laboratory diagnosis and prevention	
23.06.26	Hepatitis viruses: • Classification, important characteristics, diseases, transmission, pathogenesis, complications, laboratory diagnosis and prevention	
30.06.26	Polio virus • Important characteristics, diseases, transmission, pathogenesis, laboratory diagnosis and prevention Merits and demerits of oral and injectable polio vaccine.	
07.07.26	Rabies virus: • Important characteristics, diseases, transmission, pathogenesis, laboratory diagnosis and prevention, merits and demerits of different types of vaccines	
14.07.26	Rota virus: • Diseases, transmission, pathogenesis, laboratory diagnosis and prevention	
21.07.26	HIV: • Classification, important characteristics, diseases (AIDS), transmission, pathogenesis, laboratory diagnosis and prevention	
28.07.26	Dengue • Important characteristics, diseases (DHF, DSS), transmission, pathogenesis,laboratory diagnosis and prevention.	
04.08.26	Emerging viral diseasesAvian flue, SARS, Nipah, Swine flue, etc. • Important characteristics of virus, important clinical features, transmission,pathogenesis, laboratory diagnosis and prevention	
11.08.26	Oncogenic virus • Definitions, list of onchogenic viruses with their associated tumours	

(Mycology)	
18.08.26	Introduction: • Introduction to Mycology, beneficial and detrimental effects, morphology, classification • Difference between fungal and bacterial spores
25.08.26	Superficial and cutaneous mycoses: • Aetiological agents and diseases • Transmission and pathogenesis, laboratory diagnosis of <i>Pityriasis versicolor</i>, Dermatophytosis, Candidiasis.
05.09.26	Subcutaneous • Aetiological agents and diseases, Transmission and pathogenesis, Laboratory diagnosis of Rhinosporidiosis and Madura foot
08.09.26	Systemic mycoses • (Primary and opportunistic): Aetiological agents and diseases Transmission and pathogenesis, Laboratory diagnosis of histoplasmosis • Cryptococcal meningitis, candidiasis. Brief description of pneumocystis jirovecii, fungus ball, mycotoxin
(Molecular Biology)	
12.09.26	PCR • Principle of PCR, RT-PCR, Realtime PCR
15.09.26	Genetic engineering • Definition of DNA Cloning, DNA recombination, Genetic engineering, biotechnology, gene therapy
Virology, Mycology & Molecular Biology Card final probable date: 19.09.26	

2 nd term:-Card:05- Parasitology		
Name of the teacher	Day	Time
Dr.Mohammed Sheran	Saturday	11.30-12.30 pm
Dr.Taskin Jahan	Tuesday	11.30-12.30 pm
Date	Topics	
06.06.26	Introduction • Introduction to parasitology, common parasitic diseases of Bangladesh, Terms and definitions • Classifications of parasites according to habitate.	
13.06.26	Entamoeba histolytica: • Classification,Geographical distribution, morphology, disease. • clinical features, pathogenesis,laboratory diagnosis	
20.06.26	Giardia intestinalis and Trichomonas vaginalis: • Morphology, transmission, disease, clinical features, pathogenesis, laboratory diagnosis	
27.06.26	Blood and Tissue Protozoa: • Leishmania species: Leishmania donovani and PKDL: Geographical distribution morphology, lifecycle, disease, • clinical features, pathogenesis laboratory diagnosis	
04.07.26	Plasmodium species: • Epidemiology, morphology, lifecycle, disease, clinical features, • pathogenesis,complications, laboratory diagnosis	
11.07.26 & 18.07.26	Cestodes and Trematodes: • Classify according to habitate with examplesMorphology, lifecycle, diseases, clinical features, pathogenesis, laboratory diagnosis of Taenia saginata and Taenia solium	
25.07.26	Echinococcus granulosus: • Morphology, lifecycle, disease, clinical features, pathogenesis and laboratory diagnosis	
01.08.26	Intestinal Nematodes: • Geographical distribution, morphology, lifecycle, disease, clinical features,pathogenesis, laboratory diagnosis of Ascaris lumbricoides,	
08.08.26	Hook worm, Trichuris trichiura,	
15.08.26	Enterobious vermicularis, Strongyloides stercoralis and larva migrans	
22.08.26	Tissue nematodes: Wuchareria bancrofti: • Morphology, lifecycle,disease (classical and occult filariasis, tropical pulmonary eosinophilia),clinical features	
29.08.26 & 01.09.26	Additional: • Acanthamoeba and Negleria Toxoplasma gondii, Crytosporidium, Balantidium coli Hymenolepes nana, Diphylobothrium latum Trypanosoma ,Loa loa, Onchosercous volvulous,Fasiolopsis buski, Faciola hepatica: habitate, disease, clinical features, laboratory diagnosis	
Parasitology card final probable date: 22.09.26		

2nd term:-Card:-06- Clinical Microbiology		
Name of the teacher	Day	Time
Dr.Mohammed Sheran	Saturday	11.30-12.30 pm
Dr.Taskin jahan	Tuesday	11.30-12.30 pm
Date	Topics	
24.01.26	• Collection of samples, transportation and storage	
10.02.26	• Microbial diseases of Gastrointestinal and Hepatobiliary diseases	
17.02.26	• Microbial diseases of Food poisoning	
10.02.26	• Microbial diseases of Genital system	
17.02.26	• Microbial diseases of Urinary system	
07.03.26	• Microbial diseases of upper and lower Respiratory Tract infections	
06.02.26	• Microbial diseases of CNS infection	
18.04.26	• Hospital Acquired Infections	
24.03.26	• Microbial diseases of Bone and Soft Tissue infection	
10.03.26	• Microbial diseases of Cardiovascular System	
17.03.26	• Microbial diseases of eye, ear, nose and throat	
31.04.26	• Pyrexia of unknown origin (Microbial cause with emphasis on blood culture).	

Part-2: Tutorial and Practical class schedule

Name of the Teachers	Day	Time
• Dr Kamruzzaman Wahed • Dr. Abul Kalam Azad • Dr. Muhammad	Saturday	12.30-02.30 PM
	Tuesday	

Term:-01:Card:02-Systemic Bacteriology	
Date	Topics
17.01.26	Staphylococci,
20.01.26	Streptococci, Neisseria
24.01.26 & 27.01.26	Corynebacterium, Bacillus, Anaerobic Bacteria, Clostridia
31.01.26 & 03.02.26	Enterobacteriaceae: • Escherichia, Salmonella & Shigella. • Vibrio and Pseudomonas
07.02.26	Examination of sputum & Mycobacterium
10.02.26	<i>T. pallidum</i> and STDs
Term:-01:Card:03-Immunology	
Date	Topics
10.03.26	Immunology: Introduction, immune system (cells & organs)
10.03.26	Antigens, Immunoglobulins
14.03.26	Mechanism of immune response, complements, cytokines
14.03.26	Hypersensitivity,
14.03.26	MHC, transplantation

Name of the Teachers		Day	Time
• Dr Kamruzzaman Wahed		Saturday	12.30-02.30 PM
• Dr. Abul Kalam Azad		Tuesday	
• Dr. Muhammad			
Term:-02:Tutorial Class			
Card:-04: Virology and Mycology			
Date	Topics		
06.06.26	Viruses: Introduction, structure,		
06.06.26	Classification, antiviral drugs, viral vaccine.		
09.06.26	Hepatitis viruses, HIV, Dengue		
09.06.26	Herpes, Rotavirus		
13.06.26	Introduction to Mycology, Classification, lab diagnosis of dermatophytosis, candidiasis		
Card:-05: Parasitology			
Date	Topics		
16.06.26	Introduction to Parasitology, classification		
20.06.26	<i>E histolytica</i> , <i>G. lamblia</i>		
23.06.26	Stool examination. Common helminthes : <i>A lumbricoides</i> , <i>A. duodenale</i> , <i>E. vermicularis</i> , <i>T. trichiura</i>		
23.06.26	Cestodes, trematodes,		
27.06.26	Blood and tissue protozoa (<i>L.donovani</i>)		
27.06.26	Plasmodium species.		
Card:-06: Clinical Microbiology			
Date	Topics		
14.02.26	Diarrhea, dysentery, food poisoning		
14.02.26	Examination of stool		
17.02.26	Urinary tract infection		
17.02.26	Examination of urine.		
24.02.26	Respiratory tract infection & meningitis, examination of CSF		
24.02.26	Tuberculosis and leprosy		

Name of the Teachers		Day	Time
• Dr Kamruzzaman Wahed • Dr. Abul Kalam Azad • Dr. Muhammad		• Saturday • Tuesday	12.30-02.30 PM
Term:-01:Practical Class			
Date	Topics		
17.03.26	Gram’s staining		
24.03.26	Z-N staining		
28.03.26 & 31.03.26	Demonstration of culture media namely Nutrient agar, Blood agar, Chocolate agar, MacConkey’s agar, Lowenstein Jensen, Robertson’s cooked meat media, Blood culture media, transport media (Carry-Blair/Stuart/Peptone water) with and without bacterial growth		
04.04.26 & 07.04.26	Demonstration of colony morphology of common bacteria: <i>Staphylococci</i> , <i>Streptococcus</i> Lactose fermenters, Lactose nonfermenters, <i>Proteus</i> , <i>Pseudomonas</i> , <i>Mycobacterium</i> .		
11.04.26	Demonstration of inoculation, incubation (aerobic, CO2 and Anerobic condition) and plate reading.		
18.04.26 & 21.04.26	Demonstration of catalase, coagulase, and oxidase, TSI, MIU and Simmon’s citrate tests		
25.04.26	Demonstration of in vitro antibiotic sensitivity test by disk diffusion method		
28.04.26	Demonstration of sterilization by chemical agents autoclaving and hot air oven.		
02.05.26	Demonstration of donning and doffing, wearing PPE, hand washing/sanitization.		
05.05.26	Preparation of disinfectants		
Term:-02:Practical Class			
Date	Topics		
04.07.26	Microscopic examination of stool for demonstration of cyst/trophozoites of protozoa, ova/larva of intestinal helminthes, pus cells, macrophage and RBC		
07.07.26	Microscopic examination of urine for demonstration of epithelial cells, pus cells, RBC, etc.		
11.07.26	Examination of blood smear for demonstration of malarial parasites		
11.07.26	Examination of bone marrow smear for LD body		
14.07.26	Microscopic examination of Gram stain smear of throat swab, wound swab, urethral discharge		
18.07.26	Microspic examination of Z-N smear of sputum for AFB		
21.07.26	Immunological tests: Demonstration and interpretation of Widal, RPR, ICT for HBsAg, HIV, HCV, Dengue, Chikungunya and Plasmodium, LD body.		
25.07.26	Microscopic examination of skin scrapping for demonstration of fungal elements (dermatophytes and candida)		

Part-3A: ITEM CARDS

There will be 2 (two) Cards

1.Item card 1: General Bacteriology, Systemic Bacteriology, Immunology

2.Item card 2: Parasitology, Virology, Molecular Biology, Mycology and Clinical Microbiology

DEPARTMENT OF MICROBIOLOGY

Chattagram International Medical College

Item Card

CARD: 1. GENERAL BACTERIOLOGY, SYSTEMIC BACTERIOLOGY AND IMMUNOLOGY

Name of the student:				PHOTO	
Class Roll No. :	Batch:	Session:	Contact no.:		
Name of the Guardian:					
Address:			Contact no.		
Sl No.	Name of the Item	Full Marks	Marks Obtained	Teacher's Signature	Remark
1A. GENERAL BACTERIOLOGY					
01.	Prokaryote and eukaryote, components of bacteria, cell wall of Gram-positive and Gram-negative bacteria, capsule, flagella, spore, classification of bacteria	10			
02.	Growth and death of bacteria, growth requirements, classification of bacteria according to oxygen requirement, growth curve, generation time	10			
03.	Pathogenesis of bacterial disease, exotoxin and endotoxin, Koch's postulates, their limitations, new adjuncts, molecular Koch's Postulates. Host defense against bacterial disease	10			
04.	Sterilization, disinfection, antisepsis, different methods, their principles and uses	10			
05.	Practical bacteriology: Use of microscope. Gram staining, Ziehl-Neelsen staining. Culture media – types, commonly used media with their use	10			
06.	Antimicrobial drugs, their mechanism of action, resistance, selective toxicity, antibiotic combination, chemoprophylaxis, susceptibility test Bacterial genetics –	10			

	plasmid,transposons, mutation, transfer of gene, Multidrug resistant (MDR). Extensively drug resistant (DXR) and Pandrug resistant (PDR) bacteria.				
07.	Normal flora	10			
08.	Biosafety and biosecurity, Biomedical waste disposal	10			
	CARD FINAL	100			
1B. SYSTEMIC BACTERIOLOGY					
01.	Staphylococcus	10			
02.	Streptococcus	10			
03.	Neisseria, causes of pyogenic meningitis	10			
04.	Corynebacterium, Bacillus	10			
05.	Mycobacterium	10			
06.	Enterobacteriaceae – General properties & classification, Escherichia coli, Shigella	10			
07.	Salmonella	10			
08.	Vibrio, Campylobacter	10			
09.	Pseudomonas, Proteus, Klebsiella	10			
10.	Haemophilus, Helicobacter, Bordetella, Bacillus	10			
11.	Anaerobic bacteria, anaerobic culture	10			
12.	Spirochaetes, sexually transmitted disease	10			
13.	Rickettsia, Chlamydia, Mycoplasma	10			
	CARD FINAL	100			
1C. IMMUNOLOGY					
01.	Immunity, its type, components of innate immunity, comparison between active and passive immunity, immunocompetent cells	10			
02.	Immunogen, antigen, properties of an ideal antigen, hapten	10			
03.	Immunoglobulin, antibody, its structure, types, function	10			
04.	Complements, major histocompatibility complex	10			
05.	Cytokines, mechanism of immune response, primary and secondary immune response	10			
06.	Tolerance, hypersensitivity, autoimmune diseases	10			
07.	Tumour immunity, transplantation, immunodeficiency	10			
08.	Immunological reactions- basic principles and examples	10			
	CARD FINAL	100			
	FIRST TERM EXAM	200			

CARD: 2. VIROLOGY, MYCOLOGY, PARASITOLOGY, CLINICAL MICROBIOLOGY AND MOLECULAR BIOLOGY

Sl No.	Name of the Item	Full Marks	Marks Obtained	Teacher's Signature	Remark
2A. VIROLOGY					
01.	Basic virology, basic structure of a virus, defective virus, prion, replication, pathogenesis of viral disease, host defense against viral infection, antiviral drugs, general scheme of lab diagnosis of viral diseases, common viral infections in Bangladesh	10			
02.	Herpesvirus, orthomyxovirus, paramyxovirus, rubella virus	10			
03.	Hepatitis viruses, oncogenic viruses	10			
04.	Human immunodeficiency virus	10			
05.	Polio virus, rabies virus, dengue virus, rotavirus, chikungunya virus, Zika virus	10			
06.	COVID-19	10			
2B. MYCOLOGY					
01.	Basic structure of fungi, classification of fungi, antifungal drugs	10			
02.	Superficial & cutaneous fungi- Malassezia furfur, dermatophytes, Candida.	10			
03.	Subcutaneous, deep & oppprtunistic fungi- Madurella, Rhinosporidium, Cryptococcus, Aspergillus.	10			
2C. MOLECULAR BIOLOGY					
01.	Principle of PCR, RT-PCT, Realtime PCR,	10			
02.	Definition of DNA Cloning, DNA recombination, Genetic engineering, biotechnology, gene therapy	10			
	CARD FINAL	100			
2C. PARASITOLOGY					
01.	Basic concepts of host, parasites and their types, classification of medically important protozoa	10			
02.	Entamoeba, free living amoeba, Giardia, Balantidium	10			
03.	Leishmania, Trichomonas, Trypanosoma	10			
04.	Plasmodium, Toxoplasma, Babesia	10			
05.	Basic structure and classification of helminthes Cestode: Taenia, Echinococcus, Diphyllbothrium Trematodes: Schistosoma, Fasiolopsis	10			
06.	Nematodes: Ascaris, Enterobius, Strongyloides, Trichuris	10			
07.	Nematodes: Hookworm, Filariasis, Oncocerca Volvulus	10			
	CARD FINAL	100			

CLINICAL MICROBIOLOGY					
01.	Examination of stool, morphology of common parasites found in stool, diarrhea-causes and diagnosis	10			
02.	Examination of urine, urinary tract infection-causes and diagnosis	10			
03.	Examination of CSF, meningitis- causes and diagnosis	10			
04.	Blood culture, pyrexia of unknown origin	10			
05.	Examination of sputum, throatswab, pus, wound swab, pleural fluid, ascetic fluid, genital specimen. Causes of pneumonia, sore throat, wound infection, pleural effusion, ascites, vaginal discharge, urethral discharge,	10			
06.	Basics of Hospital Acquired Infection	10			
07.	Infection prevention and control, hand washing, donning and doffing, Preparation of disinfectants, Disposal of Medical wastes	10			
	CARD FINAL	100			
	SECOND TERM EXAM	200			

Part-3B: Cards for the Term final examination on Microbiology for individual students

Department of Microbiology

Students name-----

Roll no.-----

Session ----- Year----- Batch-----

Date of starting ----- Date of ending -----

Component	Written	Oral	OSPE/Practical	Total	Remarks (Signature & date)
1 st term	100	50	50		
2 nd term	100	50	50		

Part-3C: Class Attendance Record**Department of Microbiology**

Component	Total Class held	Total Class Attended	Percentage	Remarks (Signature & date)
Lecture 100 hours				
Tutorial (45 hours)				
Practical (45 hours)				
Generic classes (3 hours)				
Integrated teaching (20 hours)				

Formative Assessment record

Total marks obtained in 1st term 2nd term	Marks from two terms	Marks from class attendance	Total marks of Formative Assessment
Total marks (200+200) = 400	5	5	10

Batch teacher

Head of the department

Term Examination Schedule	
1st Term	
Preparatory Leave	
Exam (regular and supplementary) + Result	
2nd Term	
Preparatory Leave	
Exam (regular and supplementary) + Result	
3rd Professional MBBS Examination	
Revision classes + Preparatory leave	
Exam	

Chattagram International Medical College

Class Routine

Phase-III, 4th year MBBS, 2026 (Effective from 15th January, 2026)

Day	08am-09am Lecture	09am-11.00 am	11:30am-12:30pm Lecture	12:30pm-02:30pm Tutorial/Practical	
Saturday		Clinical Ward	Microbiology	Microbiology	
				G-A Room No:	G-B Room No:
Sunday	Community Medicine		Community Medicine	Community Medicine	
				G-A Room No:	G-B Room No:
Monday			Pathology	Pathology	
				G-A Room No:	G-B Room No:
Tuesday			Microbiology	Microbiology/ Integrated teaching	
				G-A Room No:	G-B Room No:
Wednesday			Community Medicine	Community Medicine/ Integrated teaching	
				G-A Room No:	G-B Room No:
Thursday			Pathology	Pathology/ Integrated teaching	
				G-A Room No:	G-B Room No:

Pharmacology

Pathology

Microbiology

Phase III
Coordinator

CHATTOGRAM INTERNATIONAL MEDICAL COLLEGE
STUDENTS MENTORING PROGRAM (SMP)

TOWARDS EXCELLENT MEDICAL CAREER

Mentor Distribution (3rd Phase, MBBS)

Sl no	Roll	Name of the Students	Mentor	Contact no
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The End

Chattagram International Medical College

Academic Calendar

MBBS Phase-3 (January to December 2026)

January							February						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
31					1	2		1	2	3	4	5	6
3	4	5	6	7	8	9	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28						
March							April						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	1	2	3	4	5	6					1	2	3
7	8	9	10	11	12	13	4	5	6	7	8	9	10
14	15	16	17	18	19	20	11	12	13	14	15	16	17
21	22	23	24	25	26	27	18	19	20	21	22	23	24
28	29	30	31				25	26	27	28	29	30	
May							June						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
30	31	1st Term Preparatory Leave + Exam				1			1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28	29	30			
July							August						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
				1	2	3	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30	31				
September							October						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
2nd Term Preparatory Leave + Exam			1	2	3	4	31	Preparatory Leave for 3rd Professional Examination				1	2
5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	17	18	19	20	21	22	23
26	27	28	29	30			24	25	26	27	28	29	30
November							December						
Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	1	2	3	4	5	6				1	2	3	4
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30	3rd Professional Examination & Result Publication				26	27	28	29	30	31	

2026: Class Start-15 January, 4th February- Shab e-Barat, 21st February- International Mother Language Day, 18th March-Laylat al-Qadr, 20th-22th March-id ul-Fitr, 26th March-Independence Day, 14th April- Bengali New Year, 1st May-Labour Day, 22th May-Buddha Purnima, 26th June-28th June-Eid-ul-Adha. 26th June-Ashura, 25th August-Eid-e-Miladunnabi, 21th-23th October-Durga Puja, 16th December- Victory Day, 25th December-Christmas Day.

Legend: ● Holiday ● Preparatory Leave & Term-I Examination ● Professional Examination



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